

Population and Society in Britain 1850-1980



Population and Society in Britain 1850-1980

Edited by
THEO BARKER and MICHAEL DRAKE

AF

New York University Press • New York *and* London

304.60941

P83

C.2

© Theo Barker and Michael Drake 1982
First published 1982

All rights reserved. No part of this publication
may be reproduced, in any form or by any means,
without permission from the Publisher
Typeset by Granada Graphics
and printed in Great Britain by
Billings & Son Ltd
London, Guildford and Worcester

New York University Press
Washington Square
New York, N.Y. 10003

**Library of Congress Cataloging in
Publication Data**

Main entry under title:

Population and society in Britain,
1850-1980.

Includes bibliographies and index.

1. Great Britain—Population—History—
Addresses, essays, lectures. 2. Great
Britain—Social conditions—Addresses,
essays, lectures. I. Barker, T. C.
(Theodore Cardwell),
1923- . II. Drake, Michael.

HB3583.P597 1982 304.6'0941 82-6437
ISBN 0-8147-1043-3 AACR2

[13022]
Contents

Introduction 7

Theo Barker, Professor of Economic History at the London School of Economics, and *Michael Drake*, Professor in the Faculty of Social Sciences at the Open University

Unemployment 14

John Oxborrow, Lecturer, Department of Economic and Social History, University of Kent at Canterbury

Children in society 1850-1980 34

P. E. H. Hair, Professor, Department of Modern History, University of Liverpool

Regional and temporal variations in the structure of the British household since 1851 62

Richard Wall, Cambridge Group for the History of Population and Social Structure

The decline of mortality in Britain 1870-1950 100

J. M. Winter, Lecturer, Faculty of History, University of Cambridge

The health of the people 121

D. J. Oddy, Professor, Department of Social Sciences and Business Studies, Polytechnic of Central London

University Libraries

Cornell Mellon University

Working wives and their families 140

Elizabeth Roberts, Centre for North-West Regional Studies,
University of Lancaster

**The impact of immigration on British society
1870-1980** 172

Colin Holmes, Senior Lecturer, Department of Economic and
Social History, University of Sheffield

Appendix: population statistics 203

Index 213

NK 7-13

Introduction

THEO BARKER AND MICHAEL DRAKE

Social history has taken a long time to escape from its political history origins. Even today much of the teaching about changing social conditions in Britain since the 1840s concentrates upon Acts of Parliament, party programmes and the work of particular politicians. According to this view of the past, social progress during the nineteenth century was due almost entirely to Factory Acts and to Public Health and Trade Union legislation, and during the twentieth to the national insurance measures, school meals and old age pensions brought in by the Liberals before 1914 and to other welfare legislation thereafter, particularly since 1948.

Nobody would deny the relevance of this legislation; but many other developments have also contributed to social change and improvement which need to be fitted into this now outdated black and white picture. The very process of economic growth, to which the State contributed little in the nineteenth century and to an increasing, though much disputed, degree since the First World War, itself had a generally ameliorating effect upon most people, though some sections of society then (as always) gained more than others at various points in time. As Social History has evolved as a branch of the broader discipline of History, especially during the past two decades, so these other, non-political features have been further explored. During the 1970s, for instance, important new works appeared which have told us much more about the nature of the class structure in Victorian society. Studies of the lower middle classes, and especially of clerks, have shown how many of these Pooters, earning little, if any, more than skilled workers, were often much worse off than this artisan *élite* because of their need to spend more on rent and in keeping up appearances generally.¹ Much research has been carried out, too, on organized religion's role in spanning the classes, and on Victorian attempts to exercise social

control.² The very rich, too, have been counted and named.³ The beginnings of the spread of leisure from the well-to-do and middle classes to wage earners, as the working week became shorter, have also been studied. With the advent of the Saturday half holiday from the 1860s onwards, organized sport became more popular and, with growing real earnings, more of the working classes, as well as the middle classes, could afford to take some annual holiday having saved for it throughout the year. More historians have been studying recreation and seaside towns: a book about Blackpool, whence Lancashire workers flocked in increasing numbers from the 1890s, makes particularly good reading.⁴

The greater relevance and richness of this new Social History, more penetrating in its treatment and often full of revealing insights, has brought about greater specialization and has attracted to the subject many new and enthusiastic recruits. Some of them have taken to supplementing traditional sources of information by the interviewing of older people, and this Oral History, often full of pathos, has helped to fill in many gaps about the day-to-day concerns of life which ordinary folk rarely committed to paper.⁵ Various new societies emerged during the 1970s to cater for these new enthusiasts: the Oral History Society, for instance, and the Social History Society, founded by Professor Perkin. The former publishes its own journal,⁶ and there is also a *Journal of Social History*, published independently of the Social History Society. The *Economic History Review* and the Economic History Society's series of *Studies in Economic and Social History* also carry material written by the new social historians. The *International Journal of Social History* has had a much longer existence. In America there are journals devoted to the study of women's history and family history.

Historical demography provides the oldest of approaches to Social History. Census material, and occasionally even details of age and occupational structure, sometimes found their way into the earlier teaching of the political historians. Indeed, the late Professor D.V. Glass, to whom this present volume owes its existence for he was originally invited to edit it, pointed out that the beginnings of a persistent interest in the history of population antedated the founding of population studies itself.⁷ As was to be expected, the recent new wave of Social History drew much of its strength, and even more of its rigour, from this long-standing interest in historical demography. The Cambridge Group for the History of Population and Social Structure, the leading figures among which have been Dr Laslett, Professor Wrigley and Dr Schofield, set on foot a number of valuable research projects and

enlisted much regional and local support. At the LSE Professor Titmuss, as well as Professor Glass, made very significant contributions in this field, especially in his Millicent Fawcett Lecture on 'The position of women: some vital statistics' in which he chided psychologists, psychiatrists and sexologists for neglecting demographic trends and went on to show how the fall in family size in western societies had been the major liberator of women. 'At the beginning of this century', he pointed out, 'the expectation of life of a woman aged 20 was 46 years. Approximately one-third of this life expectancy was to be devoted to the physiological and emotional experience of childbearing and maternal care in infancy. Today (his lecture was published in 1958) the expectation of life of a woman aged 20 is 55 years. Of this longer expectation only about 7 per cent of the years to be lived will be concerned with childbearing and maternal care in infancy'.⁸

The present volume aims to introduce present generations of university students in the social sciences, and also the not inconsiderable numbers of the general public who are also interested in these vital matters, to the role of demographic change since the mid-nineteenth century in explaining some of the topics of present-day social concern. Rapid population growth before the later nineteenth century, for instance, increased the demand for school building and teacher training and, together with larger families and urbanization, contributed to overcrowding and slum conditions. Subsequent slower growth eased the pressure on schools and schooling and made the larger investment in education from the later nineteenth century more effective than it would otherwise have been. Slower population growth also eased overcrowding, although it did not reduce the demand for an increase in the number of separate dwellings. As the larger pre-1914 cohorts passed through the population, so the elderly, not the young, preponderated among the dependants whom those of working age had to sustain.

Bountiful supplies of labour were, of course, available for some time after very rapid population growth had ceased, and, so long as this even greater labour force could find employment, there was growing effective demand for the goods and services it produced. In due course, however, slower population growth reduced the ever-increasing supply of labour. For a time, this gap was made good by fewer people of working age emigrating; but, then, with full employment after the Second World War and no remaining reserves to be drawn in from the agricultural sector, active immigration had to be encouraged. As Mr Holmes tells us in his chapter, the Irish came over to work in numbers unknown since

the nineteenth century; and by 1978 immigrants from the New Commonwealth and Pakistan, together with their children, totalled (according to official estimates) 1.9m., or 3.5 per cent, of the British population. By then, however, the Malthusian spectre of population outrunning resources had again reappeared after the quadrupling of oil prices in 1973 and subsequent increases in costs of all sorts. By 1981 these newcomers from across the seas found themselves prominent among the increasing number of unemployed.

The relationship between population and resources is complex, as Mr Oxborrow emphasizes in the first contribution to the volume which in many ways strikes its keynote. Reduced resources can contribute as much to unemployment as can excess population. It so happened that before 1914, when there were vast areas of the world still waiting to be developed and millions of able people prepared to move to these still underdeveloped areas in the United States, South America, the British Empire and elsewhere, massive unemployment was avoided despite unprecedented population increase. The First World War destroyed this international equilibrium. In the world crisis of the early 1930s, unemployment in Britain climbed to an even higher proportion of the labour force than it has reached in 1981. Yet this, as Mr Oxborrow points out, was after Britain had lost 750,000 men in the First World War who would otherwise have formed part of the interwar labour force, and, in addition, after a further 1.5m. people had emigrated over the previous 20 years.

The relentless increase in the numbers of children in Britain, though growing at a slower pace after the later nineteenth century, is the aspect of population growth which Professor Hair explains and examines. Instead of children growing up in families averaging four or more, many of whom lost parents (and certainly grandparents), before reaching adulthood, others being obliged to leave home while still quite young because there was no longer any room for them there, children nowadays grow up in greater comfort in smaller households, though they now more often lose parents by divorce, not by death. Professor Hair points out that, even in the mid-nineteenth century, surprisingly few children under 14 had to go out to work (and then it was usually those who were nearly 14); but many of them were kept doing jobs in and around the home. Parents, on their side, were already making considerable sacrifices to enable their children to attend school, not necessarily on a full-time basis, but enough to enable them to grasp the rudiments of education. Dr Roberts, in her study of working wives in Barrow, Lancaster and Preston between 1890 and 1940, also puts much

emphasis on the family economy, every member, young or old, being expected to pull his or her own weight. She uses interviews with the elderly, as well as more traditional sources, to show that emancipation for working-class women before 1914 consisted of being freed from having to go out to work. Few wives of skilled workers took outside employment unless it was in shops (in which they often had a share). Married women who went out to work did so because their husbands earned too little, and the wives' earnings were essential for the family's subsistence.

More children survived from the mid-nineteenth century and more infants survived from the 1890s. It was this reduction in death rates at earlier ages, rather than greater longevity of adults, which mainly explains the increase in life expectancy at birth from 40.5 years for men and 43.0 years for women in 1861 to over 70 in the 1960s. As Dr Winter points out in his contribution to this volume, 'the increase in life chances' among Europeans has probably been greater since the mid-nineteenth century than the total gains had been over the previous millenium. There was less grief — and more certainty of children's survival, which in turn explains to a large extent the spread of family limitation which Dr Roberts also touches upon in passing. Better diet, rather than better medical care or medical knowledge seems to have made the main contribution to the decline of tuberculosis and the other killer diseases. Professor Oddy chronicles this nutritional improvement by referring both to reports on the health of schoolchildren, who grew much taller in this period, and to particulars of army medical examinations. Only three out of every nine men of military age were passed as perfectly fit and healthy by the National Service Medical Board in 1917-18 after the flower of youth had already been recruited; and of the remaining six, three were physical wrecks and a fourth was declared a chronic invalid. Comparable details collected as a result of conscription in the Second World War and after it while conscription lasted — six million case studies — await the courageous at the Public Record Office.

All our authors are at pains to stress the unreliability of much of the statistical evidence, and to explain why this should be so. None more than Mr Wall, of the Cambridge Group for the History of Population and Social Structure. He concentrates mainly on the censuses, and especially on the recent ones, the General Household Survey of the Social Survey Division of the Office of Population Censuses and Surveys and the Family Expenditure Survey of the Department of Employment to examine changes in the structure of the British household since 1851. He finds that the number of households in which relatives lived with the family changed little

in the hundred years between 1851 and 1951 (it fell from just over 20 per cent to 15 per cent); but between 1951 and 1971 it has fallen much more steeply, to 7.7 per cent, a phenomenon he goes on to explore and explain.

The essays in this volume show not only how central the demographic experience is to all our lives, but also how radically much of that experience has changed over the last century or so. Knowing just how and when it has changed and what its impact has been over this period provides us with a perspective to many of our current concerns, without which our understanding of them must remain sadly deficient. It is hoped then that social scientists, of all descriptions, together with those many members of the general public who share their interests, will find in these essays a valuable contribution to their studies.

Notes

¹ Geoffrey Crossick (ed.), *The Lower Middle Class in Britain, 1870-1914* (1977); Geoffrey Crossick, *An Artisan Elite in Victorian Society. Kentish London 1840-1880* (1978); Gregory Anderson, *Victorian Clerks* (1976).

² A. D. Gilbert, *Religion and Society in Industrial England. Church, Chapel and Social Change, 1740-1914* (1976); Stephen Yeo, *Religion and Voluntary Associations in Crisis* (1976); John Stevenson, *Popular Disturbances in England, 1700-1870* (1979); A. P. Donajrodzki (ed.), *Social Control in Nineteenth Century Britain* (1977).

³ W. D. Rubinstein, 'The Victorian middle classes, wealth, occupation and geography', *Economic History Review*, November 1977; W. D. Rubinstein, 'Wealth, elites and the class structure of modern Britain', *Past and Present*, August 1977; W. D. Rubinstein (ed.), *Wealth and the Wealthy in the Modern World* (1980).

⁴ John K. Walton, *The Blackpool Landlady. A Social History* (1978). See also Peter Bailey, *Leisure and Class in Victorian England. Rational Recreation and the Contest for Control, 1830-1885* (1978); Hugh Cunningham, *Leisure in the Industrial Revolution* (1980); H. E. Mellor, *Leisure and the Changing City, 1870-1914* (1976).

⁵ See, for example the writings of the doyen of oral historians, George Ewart Evans especially *Ask the Fellows Who Cut the Hay* (1956); *The Days We Have Seen* (1975) and *From Mouths of Men* (1976); Michael Winstanley, *Life in Kent at the Turn of the Century* (1978); Thea Thompson, *Edwardian Childhoods* (1981). As an introduction to oral history, see Paul Thompson, *The Voice of the Past* (1978).

⁶ Edited from its inception by Paul Thompson and published from the Sociology Department, University of Essex.

⁷ Introduction to D. V. Glass and D. E. C. Eversley (eds.), *Population in History* (1965); See also Peter Laslett, D. E. C. Eversley and W. A.

Armstrong, *An Introduction to English Historical Demography* (ed. E. A. Wrigley 1966); Peter Laslett (ed.), *Household and Family in Past Time* (1972); and E. A. Wrigley (ed.), *Identifying People in the Past* (1973); E. A. Wrigley and R. Schofield, *The Population History of England 1541-1871: a Reconstruction*.

⁸ Richard M. Titmuss, *Essays on 'The Welfare State'* (1958), 91-2. This lecture has been reprinted in M. W. Flinn and T. C. Smout (eds.), *Essays in Social History* (1974).

Acknowledgement

The editors and Richard Wall wish to thank John Hunt, Research Cartographer, The Open University for preparing the figures appearing on pages 70-80.

Book
Title
→

8410
8243
U.K.

Unemployment

JOHN OXBORROW

'Class of 80 facing the dole' was the headline for an article in *The Guardian* newspaper (21 July 1980). The 'class of 80' is the 'baby boom' generation. The number of births in the UK reached a peak in 1964, which was one of only two years since 1921 when they exceeded a million. An immediate reaction to these figures might be that if there were fewer school leavers, they would have more chance of getting a job. A glance back through the figures for unemployed school leavers at mid-summer each year would offer some support for this. There is a prominent dip in 1972, corresponding to the raising of the school leaving age to 16.¹ But it is easy enough to offer an example in the opposite sense. In the First World War about three quarters of a million British males of working age were killed. Between 1911 and 1931 there was a net loss of population of nearly one and a half million by migration. This did not prevent very high levels of unemployment in inter-war Britain. The 'class of 80' may be suffering to some extent from being a large class, but other factors are much more important in determining their employment prospects. W. B. Reddaway comments that if one asks a class of first year undergraduates about the effects on unemployment of a falling birth rate, '... probably the majority will reply that unemployment will be reduced because there will be a smaller number of people seeking jobs; most of the rest will say it will be increased, because there will be fewer people to buy' and all of them will hesitate on the issue if pressed.²

Most views on the population/unemployment relationship can be discussed in terms of a simple model involving the total available labour force, employment, output and labour productivity. By definition, output is equal to employment times labour productivity. Discussion is often in terms of the rates of change of the variables rather than their absolute values. For example, assume that labour productivity is increasing at 2 per cent per year.

Assume also that output is increasing at 1 per cent per year and is limited to this rate of increase by some factor external to the model. Then it follows that employment must decline at 1 per cent per year. If the total number of persons seeking employment is, say, constant, then clearly unemployment will increase. This is the case where productivity gains are 'destroying jobs'. If output were to increase at the same rate as productivity, then the growth of productivity would not destroy any jobs. Rather, other things being equal, it would raise living standards. Most views which have been held on this issue can be discussed in terms of the supposed interactions between the variables and the limitations which it is assumed will apply to the growth of output. It is a subject which has often aroused strong views. It is, as G.P. Hawthorn comments in an incisive survey, 'a topic peopled with vigorous optimists and gloomy pessimists'.³ Later in this chapter we shall look at the pessimists and the optimists in turn. First however it is necessary to consider the first term in the model; what was called above the total available labour force or 'those seeking employment'.

Who wants to work? Measuring the labour force

Labour productivity determines the labour input necessary for any given output. But the necessary labour input can be applied in many different forms. The available employment opportunities can be spread over all or nearly all those seeking work by adjusting working hours. In economies in the early stages of industrialization, or in economies with large agricultural sectors or a high proportion of self-employed workers, there is commonly more under employment than overt unemployment. This can be thought of as adjusting the productivity term in the model or alternatively it can be viewed as a reduction in labour input by what amounts to part-time working. In highly industrialized modern economies there is more commonly complete and overt unemployment for a proportion of the labour force. This is what is normally meant by the term unemployment in modern discussion. Historically this conception of unemployment arises concurrently with the industrialization and urbanization of the country. In Britain examples of the use of the word in the modern sense can be found as early as the 1840s, but it was not introduced into formal economic discussion until 1888 (by Alfred Marshall). The first attempt at a formal definition was made by J. A. Hobson in 1895.⁴

If unemployment is used in this modern sense, it might seem that its definition is straightforward. It is the difference between

the numbers seeking work and the numbers actually working. In practice this is a very difficult number to pin down, because of both conceptual and data collection problems. What is ideally needed is a survey, using a very tight definition of what is meant by 'wanting to work' and 'available for work'. There is no survey of this sort at all in Britain prior to 1971. The commonly quoted figures for unemployment make use of data collected, since 1921, under the unemployment insurance scheme, or of census data. The differences which can result are illustrated by the figures given for unemployment in two authoritative sources for the year, say, 1932. From the London and Cambridge Economic Service's *The British Economy Key Statistics 1900-1970* the answer is 22.1 per cent but Angus Maddison's *Economic Growth in the West* (1964 appendix E) gives 13.1 per cent. When there are problems of this order in defining the variable, caution is obviously in order in discussing its causes.

Space does not permit a full discussion of these definitional problems. One issue in this area which calls for at least a brief mention is that of activity rates. At different points in time a larger or smaller proportion of the population in any age or sex group may seek employment. Economic development and rising incomes tend to reduce male activity rates in the younger and older age groups. This is because education is lengthened while pension schemes make retirement from work financially possible. On the other hand female activity rates rise in the later stages of development. This is perhaps due to the downward trend in the birth rate, the increased availability of work in services often considered specially suitable for females, and, to some extent, the liberalization of law and convention regarding female employment. The increase in female activity rates in Britain since 1950 has been the most important single factor acting on labour supply.⁵ To give an example from a period for which fairly good statistics are available: in the UK between 1969 and 1978 females aged 15-64 declined in numbers by about 100,000, but the number in employment rose by 925,000. The number of females in this age group registered as unemployed rose five and a half times, by 350,000. The rate for this age group rose from 49.7 per cent to 57.4 per cent.⁶ Activity rate changes here swamp the actual change in the population. In western industrial countries increases in female activity rates since 1950 are general, though there are considerable variations between countries. The British figures are distinguished by the unusually high proportion of females who work part-time. Activity rates cannot be calculated with much confidence for earlier periods, though changes seem to have been much slower. The

female proportion of the labour force was much the same in 1921 as it was in 1951 and perhaps not very much different from typical nineteenth-century figures. But figures for before 1948, when universal national insurance was introduced, need to be treated with scepticism.⁷

'Gloomy pessimists'

Thomas Malthus is the father of all gloomy pessimists in this area.⁸ Malthus's famous essay had six editions between 1797 and 1826 and must be among the most quoted and influential works in social science. J. J. Spengler comments 'although the course of events in the century and a half succeeding the appearance of the sixth edition of the essay has altered the dimensions of the population problem, it has not altered its essential character'.⁹ An important element in any Malthusian approach is the assumption that output will be limited by the availability of some input, other than labour, into the productive system. The input which concerned Malthus was agricultural land and he did not think that other raw materials would pose a problem. This is understandable enough in early nineteenth-century Britain. Agriculture was still the largest single industry; food is obviously vital to human survival and the land area of Britain was obviously finite. The possibilities at that time for importing food were slight; neither the sources of supply nor the means of transport existed. Malthus guessed in 1797 and knew by 1826 that the population was increasing rapidly. A second element in the argument was that any increase in the productivity of land brought about by technical progress would simply lead to a further increase in population, via temporarily higher living standards. Thus although there might be an oscillation over time in population and living standards, the latter would be repeatedly forced back to subsistence level by the pressure of population. The size of the population would be kept in check by the disease and 'misery' implied by this low level of living. Any surplus population would be starved out of existence.

The power of population is so superior to the power in the earth to produce subsistence for men that premature death must . . . visit the human race. The vices of mankind are active and able ministers of depopulation . . . but should they fail . . . gigantic inevitable famine stalks in the rear and with one mighty blow levels the population with the food of the world.¹⁰

Malthus's reputation owes much to his policy proposals, especially for the abolition of the poor law. Such ideas aroused the fury of Marx and will certainly seem illiberal to many modern readers. But much of his analysis is persuasive. It was influential in political

and economic thought, though not without modification, through the middle of the nineteenth century. J. S. Mill's *Principles of Economics* was the leading text in its field for many years after its publication in 1848. It was thoroughly permeated by Malthusian ideas. M. Blaug remarks that Mill thought every conceivable policy must be judged in terms of its effects on the birth rate.¹¹ Mill wrote in his autobiography that Malthus's great population principle was a banner and point of union among the utilitarians.

This great doctrine, originally brought forward as an argument against the indefinite improvability of human affairs, we took up with ardent zeal in the contrary sense, as indicating the sole means of realizing that improvability by securing full employment at high wages to the whole labouring population through a voluntary restriction of the increase of their numbers.¹²

Birth control is the only route to full employment. Another comment from Mill catches the essence of the Malthusian approach:

The niggardliness of nature, not the injustice of society, is the cause of the penalty attached to over-population . . . it is in vain to say, that all mouths which the increase of mankind calls into existence, bring with them hands. The new mouths require as much food as the old ones, and the hands do not produce as much.¹³

The basic Malthusian fear is that there will not be enough of something, specifically land as far as Malthus himself was concerned, to employ the labour force. This fear was prominent at the beginning of the period under consideration. Never entirely absent, it rises to prominence again at the end. But then it was extended to cover the fear of running out of a wide range of materials; not only food (which has continued in some areas to be in surplus) but fuel, minerals and fibres. As Spengler puts it: 'It is the finiteness of a now more broadly defined biosphere that sets limits to how large a population may become and yet remain compatible with man's long run welfare.'¹⁴ Between about the 1870s and the 1960s these Malthusian fears were largely in abeyance. During this period the limitations which had seemed so constrictive to Malthus were removed. Britain, which had seemed such a small country to him, was able to draw food and raw materials from all over the world and provide employment for a population ten times that of 1800 at a greatly increased standard of living. Technical progress raised the productivity of agricultural land. The development of industry and the cumulation of capital provided opportunities for employment and the growth of output on a scale which Malthus could hardly have dreamed of. This was the age of the 'frontier'; a period in which the world seemed to offer possibilities for more or less indefinite expansion, both geographically and technically.¹⁵ More of everything could always be

found, 'out there', over the horizon. But in the late 1960s many observers started to discern the return of the Malthusian nightmare, and this time in a form from which there was no easy escape. A few western industrial countries could transcend their own limits by exploiting the rest of the world's resources. But, as the first photographs from space served to dramatise, the world as a whole was finite.

The late 1960s saw a spate of publications arguing about the finiteness of the world's resources on these lines. Their impact however was nothing compared with that of the 1973 oil crisis. This seemed to herald the first real fulfilment of such predictions. Indeed the quadrupling of oil prices in 1973 may well prove to have been the end of the 'frontier' era in economic history. From 1850 to 1973 there was one statistic which appeared to prove Malthus decisively wrong. This was the figure for the terms of trade between primary produce and manufactured goods. Throughout this period, the trend, with some interruptions, was for primary produce to get cheaper relative to manufactured goods.¹⁶ This must be strong evidence of the absence during this period of any constraint on employment arising from physical shortages of inputs. But although it is still early in the day for generalizations, it could well be that the trend of relative prices was permanently reversed in the early 1970s. It was not only oil prices that rose at that time but those of many other raw materials as well.

The substantial rise in unemployment in Britain and most other industrial countries since 1973 has not however been directly caused by any physical shortage of inputs. Raw materials and fuel have continued to be available, but at higher real prices. The rise in unemployment has been the result of balance of payments problems and of inflation brought about by the higher import prices and of the policy reactions to these developments. The rise in oil prices was of great importance, but there was not, except for a few weeks, a 'shortage' of oil, in the sense that oil could always be had, at a price. The price was high because of the success of the cartel instituted by OPEC. But it may be asked, what was it that enabled OPEC to be successful when nearly all earlier attempts at rigging the market by primary producers had failed (apart from those involving industrial countries' own agricultural output)? The answer must be that the rise in world population combined with the spectacular rise in per capita consumption had placed a severe strain on the world's energy resources. Energy did not run out in any simple sense. But what the world did run out of was large, easily and cheaply exploitable new sources of energy. This contrasts sharply with experience during the 'frontier' phase.

During the 1950s and 1960s the industrial west had grown at record rates on the basis of a flood of cheap oil. If any oil producer tried to restrict output, as Persia did from 1950-1953, supplies could easily be replaced from elsewhere.¹⁷ In the 1960s large new producers entered the market, for example Libya and Nigeria. But in 1973, when OPEC struck, there was no new source to turn to in the short term, either geographically or technically. And so the cartel worked. The inflation and balance of payments problems which its success created in industrial countries have led to increased unemployment. In a broad sense the crisis had a Malthusian element in it.

There are many 'vigorous optimists' who would strongly dispute this conclusion. A great deal of the pressure on energy and other natural resources could be said to derive from the rise in per capita consumption rather than from the rise in population. This is a two-edged argument. The higher the level of consumption per person, the greater the effect of any change in the number of persons. For instance, between 1951 and 1973, UK energy consumption increased from 236 million tons of coal equivalent per year to 353 million tons per year. The per capita consumption increased from 4.70 to 6.32 tons per year, or by 34.5 per cent. Over the same period the population increased by 11.2 per cent. But if the population had not increased at all, then annual consumption would have increased by 81.5 million tons a year instead of 117 million tons; an increase 30 per cent less than actually occurred.¹⁸

Again, there has been no shortage of optimistic assertions to the effect that the technological or even the geographical frontier is not over. Just as the early nineteenth-century political economists failed to foresee the technical changes that were to falsify their views, so today's 'pessimists' may be failing to take adequate account of tomorrow's technical progress.¹⁹ The present author inclines to a pessimistic view. The easy options are likely to be taken first and most of them have been. North Sea oil and nuclear power are each in their way examples of the very difficult areas that it is now necessary to explore if the broadly defined Malthusian limits are to be pushed back again. But the only sure judgement is that the future is difficult to predict.

Optimists

Three aspects of the history of the last 100 years or so will be covered under this heading. The first will be described as the neoclassical phase. The second aspect is 'secular stagnation' and the third is the phase of rapid economic growth from the Second

World War to the oil crisis.

The neoclassical phase

Quite early in the nineteenth century it became clear that the gloomy classical view of the relationship between demographic and economic variables did not fit some of the evidence. The discrepancy emerges clearly in the work of Phelps Brown and Hopkins, who made a brave attempt to chart the real value of a wage series over the enormous time span of seven centuries.²⁰ As they themselves make clear, there are reservations about accepting their data as an indicator of real wages in general. But their results seem plausible when related to other accounts of the economy over much of this period. Their graph shows a high point for real wages at the end of the fifteenth century, and a low point at the end of the sixteenth. It then rises until the middle of the eighteenth century and then turns down again. If we grant ourselves a little poetic licence and imagine Malthus reading the relevant issue of *Economica* in about 1800, he would probably have been quite pleased. 'Look' we can imagine him saying, 'there in the late fifteenth century is the peak which results from the reduction in the population in the Black Death. Then the population starts to rise again and we can see the resulting low point, which induced the Elizabethans to start that wretched poor law. Population growth in the late seventeenth and early eighteenth century was quite slow and agricultural improvement, which you know cannot go on for ever, did raise real wages. But look at the present trends. Population is rising more rapidly than ever before and we can see all too clearly the effect on living standards. We are clearly heading for a crisis'. But let us now move forward to the view as seen from about 1900. After a period of awful hesitation in the first four decades of the nineteenth century, when it seemed that Britain stood at the brink of the crisis Malthus expected, the graph turns decisively upwards. But not because population growth was checked. In Ireland the Malthusian crash did indeed take place. The famine of 1846 and the subsequent high levels of emigration brought a drastic reduction in population. But in Britain, after the 1840s, the figures are amazing in relation to previous experience. Despite population growth at a sustained 1 per cent per annum, wages rise steadily and there is no evidence of any secular increase in the level of unemployment. The economy was finding jobs for the rising population and at ever higher real wages. By 1880 the Phelps Brown-Hopkins graph has, after a lapse of four centuries, again passed its high point of the 1480s.

Commenting on their figures, the authors write:

Do we not see here (the low point of 1597) a Malthusian crisis, the effect of rapid growth of population impinging on an insufficiently expansive economy; such as perhaps we see also in the fall that set in again around 1750, until this time a commercial and industrial revolution came to save Britain from the fate of Ireland?

The 'commercial and industrial revolution' broke the relationship, in those countries which succeeded in industrializing, between population change and the economic situation. It did so by technical progress and trade. We now move into a period in which the most important constraint on output is effective demand. The constraints envisaged by the classical economists, of land and food supply and, by 'latterday' Malthusians, of energy and raw materials, fade into the background. Hence it followed that the economy could provide employment for all who wanted. And although there were fluctuations in activity, on the whole it did.

Economic and social thought soon began to reflect the new situation.²¹ The emerging industrial and urban society was far more complicated than its predecessors. The division of labour was finer and the links between producer and consumer much longer. The financial system developed a matching complexity. Saving and investing, and owning and managing were now more often separated. But none of this had been planned, in Britain anyway. It appeared that the best model of this economy was that of a self adjusting system, too complicated perhaps to ever analyze fully, but whose main links and feedbacks could be understood. The new assumptions were that, providing the labour market was working properly, real wages would depend on productivity, which would in turn depend on investment and technical progress. Real wages had risen and could rise further. Employment had been and could in the future be found for all who wanted it, though the problem of trade fluctuations needed attention. From 1890, Alfred Marshall's *Principles of Economics* was the leading text. A quotation illustrates the change. 'If real wages were forced down by the difficulty of obtaining food, the working class could relieve themselves of the pressure of diminishing returns by reducing their numbers. But they cannot do so now, because there is no such pressure'²² The level of employment would be determined by the level of demand. And the level of demand would be self adjusting, since the process of production itself generated the necessary demand through the payment of wages, salaries and profits. These ideas led to the view that, if there was unemployment, a principal cause must be institutional failings in the labour market. Thus economists in this period had little to say about unemployment, which increasingly came to be regarded as a problem of social administration.

Politically, unemployment was a matter of mounting concern. But it was increasingly regarded as being due to the 'injustice of society', or at least the defective organization of society, rather than the 'niggardliness of nature'. William Beveridge emerged as a leading authority on the topic. In his *Unemployment: A Problem of Industry* published in 1909 he briefly but firmly dismissed over-population as a cause of unemployment:

It is clearly possible, theoretically, for there to be more men in a country than can find living room there. To the English economists of a past generation this appeared to be a practical and urgent danger in the country that they knew . . . today economists view the matter very differently. The fear of over-population is dispelled or at least postponed to a remote future.²³

The most important evidence for this was, he argued, the rise in real wages. If there was a pressure of population on the labour market, this would have been reflected in a fall in real wages. But there was no doubt that unemployment existed and was being increasingly recognized and discussed as a problem in terms of its modern definition. The main strands in the diagnosis offered by Beveridge and his contemporaries were: firstly that some of the population were so uneducated and mentally and physically defective as to be unemployable; secondly that the labour market was defective and needed to be improved by such things as labour exchanges and thirdly that some unemployment was due to the trade cycle. Temporary gluts were acknowledged as a possibility and could be dealt with by various relief and make-work schemes. Later Keynes was to overturn the neoclassical assumption that demand was self-adjusting within a reasonable time period.

Keynes engaged in a controversy with Beveridge in the early 1920s. Keynes had referred in his controversial best-seller *The Economic Consequences of the Peace* to the population of Britain as 'excessive' and wrote of its dependence for survival on a 'complicated and artificial organization'. Beveridge used his presidential address to the economics section of the British Association for a fierce refutation of these ideas. 'Over-population' was a possibility, he argued, only in extreme circumstances, such as those following the dismemberment of the Austro-Hungarian Empire.

Vienna remains a head grotesquely too large for the shrunken body of German Austria, manifestly over-populated and as unable to support its former members . . . as would be Monaco if the nations gave up gambling or Gibraltar if they gave up war. It is over-populated not through exhaustion of its natural resources . . . but because the world outside has changed too suddenly²⁴

Later in the article he wrote confidently: 'The problems of unemployment and over-population are distinct; they are two problems not one'. The press was pleased with Beveridge. *The*

Guardian wrote: 'At the British Association Sir William Beveridge effectively laid the bogey and convinced most of us that there are no grounds for Malthusian pessimism'.²⁵ Keynes had indeed picked the wrong moment for such comments. The movement of the terms of trade in favour of manufactured goods was carried even further in the inter-war years. The late 1920s and 1930s saw a mounting glut of food, minerals and fuel. Primary producers everywhere, whether British coal miners or Australian sheep farmers, struggled with falling prices and surplus capacity. In the 1931 edition of *Unemployment* . . . Beveridge had little hesitation in confirming his denial of any connection between the mounting problem of unemployment and the population factor. Politicians, we may note in passing, often do not keep up with academic thought. At the same time as Beveridge was editing the new edition of *Unemployment* . . . , the man actually faced with the problem, the Prime Minister, Ramsay MacDonald, committed to his diary the despairing Malthusian comment: 'The simple fact is that our population is too great for our trade'.²⁶

Secular stagnation

There was, then, no shortage of materials; indeed by the 1930s the world was awash with them. There was no shortage of 'needs'; there were plenty of ill-fed, ill-clothed and ill-housed people who would be very happy to consume more than they did. What was in short supply was effective demand. This was what caused unemployment; the neoclassicists had erred in assuming an automatic match, but it was within the power of governments to make the necessary adjustments. And these adjustments could be achieved within the existing economic and social framework. These, in brief outline, were the conclusions reached by J. M. Keynes by 1936. Keynesianism is now, in 1980, again the subject of controversy, after being the accepted view for 30 years. This controversy cannot be covered here, but it should be said that the present writer is 'Keynesian' in that he believes that Keynes' analysis of unemployment was correct in all essential points.

From the point of view of the 'population factor', there is one aspect of the Keynesian revolution which demands attention. It is the strand of thought known as 'secular stagnation'. The word secular is used to distinguish a long term rise in unemployment as opposed to the fluctuations in unemployment due to the trade cycle. Keynes himself offered some support to this approach, but its main originator is usually considered to be the American economist and early convert to Keynesianism, Alvin Hansen. The argument is straightforward. It reflects the switch of emphasis

from the supply side factors which had preoccupied earlier commentators, to the demand side of the equation to which Keynes, and the facts of the situation, so strongly pointed. The striking thing about the nineteenth century had been the way in which there was a reasonably good match between effective demand and productive capacity. But one major factor which had contributed to the level of demand was investment. Keynes' diagnosis of the failure of effective demand to reach adequate levels in the inter-war years rested on the absence of any necessary match between intended levels of saving and investment. If intentions to save exceeded intended investment, unemployment would result. Generally in the nineteenth century, investment had reached the levels necessary for approximately full employment. Why was this? At least partly because of the growth of population. Entrepreneurs, knowing that they had an expanding market for their goods, decided to extend their factories and build new ones. But population growth was now slowing down. Keynes wrote in 1937 that 'we know much more securely than we know almost any other social or economic factor relating to the future . . . that we shall be faced in a very short time with a stationary or declining population'.²⁷ And it followed that the businessmen of the future would not be making those investments which in the past had anticipated the steady growth of population. It was possible that there would be a sufficient flow of new technology to stimulate investment up to the required level, the level that is where it would employ all the savings that social convention and habit would tend to generate. But Keynes thought that the maximum likely growth of output per head that could be tolerated for long without social disruption was about 1 per cent per annum. This would be insufficient to provide outlets for all the savings people would probably want to make. There was likely to be a problem therefore in keeping effective demand up to the level of full employment. Basically it was that, in the absence of rapid population growth to stimulate investment, intended savings were likely to be excessive and lead to unemployment.

The reader may by now be wondering what justification there is for including this idea under the general heading of 'Optimists'. It may well seem that we have now come full cycle in our discussion. From the classical view that employment would be limited by supply side problems generated by a rising population, we have moved to the opposite pole where the fear is that employment will be limited by demand side problems arising out of a stationary or falling population. From some points of view secular stagnationism is pessimistic. It is labelled as optimistic here because

Keynes thought that, although there was a problem, it could be solved. Monetary and fiscal policy, and possibly some more far reaching changes in the government's role in the economy, could achieve the required result. Hansen's status as an optimist is more doubtful. His analysis was basically similar to that of Keynes. In the USA an even larger proportion, about 60 per cent, of nineteenth-century investment had arisen because of the need to provide for a growing population. This rapid expansion of the population had been associated with an equally rapid expansion of the geographical frontier westwards. By 1939 the frontier was closed, population growth by natural increase was slowing to a halt and immigration had been virtually suspended by legislation in the early 1920s. Thus the only route to providing an adequate level of demand was for the government to greatly increase its level of current expenditure. Not unexpectedly for an American, this was a possibility Hansen regarded with great suspicion.

As so often in economic life, we are confronted by a dilemma. Continued unemployment on a vast scale, resulting from inadequate private investment outlets, could be expected sooner or later to lead straight into an all-round regimented economy. But so also, by an indirect route and a slower process, might a greatly extended programme of public expenditures²⁸

The ending of rapid population growth had removed, Hansen seems to be suggesting, one of the major elements which had tended to stabilize the employment situation in the nineteenth century. The only alternative agency which could now ensure full employment was the government. The idea of government performing such a role was not one likely to endear itself to many Americans at this time.

From the Second World War to the oil crisis

This is in many ways a remarkable period. Most of the advanced industrial economies grew at rates which must be considered amazing in the perspective of previous history. Between 1952 and 1971, Japan, Germany and France grew at 8.44, 4.72 and 4.23 per cent per annum per capita respectively. Britain's per capita growth over this period was 2.24 per cent, faster than in earlier periods but much slower than her main competitors, other than the USA.²⁹ This relatively slow rate of growth soon became the dominating topic for economic discussion in Britain. Unemployment in Britain was very low taken as a national average, though some regional rates were still a cause for concern. Unemployment was low in most other industrial countries. In this new situation the focus of attention with respect to the population factor shifted again. Many commentators now discerned a labour shortage.

It had been observed that in the industrial sectors of advanced economies, a rapid growth of employment in manufacturing industry was associated with a rapid growth of labour productivity, and hence of course with the growth of output.³⁰ The fast growing countries, which did not include Britain, all had access to elastic supplies of labour and could rapidly increase employment in manufacturing. These supplies of labour did not derive from high birth rates. Birth rates turned up after the war, but this did not effect employment until the 1960s, by which time differences in growth rates were well established. Rather they came from two sources, immigration and agriculture. All the fast growing countries had at the start of this period large and relatively inefficient agricultural sectors. As these contracted, so the farm workers moved into industry. And most fast growing countries recruited substantial additions to their industrial labour forces from abroad. By 1974 there were about 2.25 million migrant workers in West Germany and 1.5 million in France.³¹ In contrast the net inflow of migrants to Britain between 1951 and 1976 was 280,000 and, after allowing for the indirect effects of this inflow, the population aged 15-64 was only 696,000 larger in 1976 than it would have been in the absence of all migration, outwards or inwards, since 1951.³² And British agriculture was already too small an employer by 1950 to contribute significantly.

In terms of the previous discussion and of course especially with respect to Malthusian thinking, the idea that the rapid increase of the labour force raises labour productivity is paradoxical. At the same time as these ideas were being expounded in the west, other western economists were developing pessimistic views about the 'third world' population situation. Here the very rapid growth of population was seen in fairly straight Malthusian terms as a threat to prospects for employment and for improvements in the social and economic situation.³³ The inverse relation between growth of per capita product and population growth which is implied by the pessimistic approach was only very weakly confirmed, with many exceptions, when detailed studies were made.³⁴ This does not of course mean that birth control programmes were not desirable on more general social grounds.

The apparent paradox between the situation in advanced and developing countries is fairly easily explained. In 'capital rich' advanced countries an elastic supply of labour for industry stimulated investment and technical progress and reaped the benefits of economies of scale. The availability of capital and, in this period, of energy and raw materials prevented the influx of labour being much of a threat to employment. This was especially the case in

Europe since during downturns in economic activity, many immigrants went home again. In contrast, capital in developing countries was desperately scarce. Rates of population growth were twice and sometimes three times those of the British industrial revolution. And many developing countries when compared with nineteenth-century Britain were deficient in political stability, literacy and entrepreneurial abilities. In these circumstances many of them appeared to be avoiding the 'fate of Ireland' only with difficulty and western food aid.

The 'labour shortage' view of the role of the population factor in Britain and Europe in this period does share something with the views of the secular stagnationists. The economy may perhaps be easier to manage when investment is stimulated by an elastic labour supply for manufacturing industry. The British industrial labour force did not grow rapidly, and, although the British economy grew at a substantial rate and had low unemployment, it was notably difficult to manage. It was increasingly subject to balance of payments problems and industrial relations were poor and deteriorating. When the oil price shock hit the western world in 1973, Britain found it particularly difficult to cope with, compared with, say, Germany, where a relatively smooth adjustment was made to the new conditions. It may be that the rather poor British performance owes something to our slow rate of economic growth and this in turn may owe something to the slow rate of growth of the labour force in industry. Possibly, but not probably. It must be stressed that the causes of slow British growth are complex and controversial. Many economists would now argue that the key constraint was the balance of payments, which exhibited special features peculiar to Britain, or some other aspect of the British situation such as her industrial relations system. But the labour shortage idea has had its adherents. Selective employment tax in 1966 was designed to squeeze labour out of the service sector and make it available for industry, where it was hoped it might initiate growth at European rates. Other commentators have regretted the restrictions on immigration imposed in 1962 due to the social problems it was thought to be generating.³⁵ From the point of view of the discussion in this chapter, the labour shortage idea does complete a neat 'full house' of theories. We have now seen every factor proposed as the crucial constraint; land, raw materials and energy, demand and now labour.

Conclusion

Looking back over the period since the industrial revolution, the

outstanding impression is the way in which, over the long term, employment opportunities have kept pace with the rise in population. Phelps Brown and Browne comment: 'However fast and cumulatively the numbers seeking work increased, there was no cumulation of unemployment and over any long span of years, the number of vacancies increased in the same proportion as that of applicants'³⁶ The population factor has been largely accommodated within the other variables of the economic system. This is despite frequent expressions of anxiety that it was likely to be a major problem in one direction or the other.

The accommodation which has been achieved has required a quite high degree of social flexibility. Children in industrial societies cannot and do not expect to be able very often to do the same type of jobs as their parents. All industrial societies show a considerable though far from complete transmission of social status from parents to children. But each new generation is fed into a constantly changing spectrum of occupations through increasingly elaborate and formalized systems of education. Given that population growth, after a rise in the birth rate in Britain (and most other industrial countries) in the 1950s and 1960s, is tending once again towards zero, fears are often expressed about the continuance of this flexibility.³⁷ The degree of flexibility required may need to be all the greater, if, as is sometimes forecast, the growth of labour productivity increases because of new technology. Fluctuations in the birth rate may create problems of a similar type. On the upswing there tends to be scarcity of educational and training facilities and perhaps difficulties in absorbing school leavers into employment. As the bulge passes into the labour force, schools and teachers are left redundant and in need of redeployment. Even here it is easy to overstate the importance of the demographic effects. According to one calculation, out of the total inflow into the teaching profession in England and Wales between 1961 and 1971, only 8 per cent was needed to match demographic growth. By far the largest proportion of the inflow was needed simply to replace teachers leaving the profession (77 per cent), leaving 15 per cent for reduction of class sizes and increased attendance.³⁸ The author of this study comments that in his view the abrupt contraction of the teacher training colleges in the mid-1970s arose much more from the 'unwise increase in their capacity' rather than from demographic factors.

Often more sweeping assertions are made about the effects of the ending of rapid population growth. A French demographer remarked that a 'stationary population would be a population of old people ruminating over old ideas in old houses'³⁹ This is not

persuasive, although as we have seen, a growing population may well be a stimulus to investment. As for creativity and inventiveness, children are not particularly creative and high rates of population growth produce a high proportion of children under 15. The lowest level of dependants of non-working age is given by a net reproduction rate of 0.9, i.e. in a slowly declining population. It is sometimes not realized that there is little difference in the proportion of dependants over a wide range of growth rates, lower growth rates merely substituting old dependants for young ones.⁴⁰ Sweezy and Owens calculated the probability of a population producing a Nobel prize winner in physics in terms of its age structure and the age distribution of actual physics Nobel prize winners. This showed the probability at a broad maximum over a wide range of growth rates between zero and plus 1.5 per cent a year, and falling off rapidly above plus 2 per cent and below minus 0.5 per cent.⁴¹ It remains true that a stationary population with a high rate of labour productivity growth would have to adapt itself to increased levels of adult re-training and education.

In Britain in 1980, the prospects for employment are considered gloomy. They are often presented in terms of a given and currently still rising labour force competing desperately for employment opportunities which are being constantly eroded by technological change. But when confronted with this pessimism, the student should return to the simple model introduced at the start of the chapter. Employment equals output divided by labour productivity. Throughout the history of industrialization, gains in labour productivity have always presented both a threat and a promise; a threat of reduced employment but a promise of higher living standards. If they in fact result in reduced employment rather than in higher output, one needs to ask, why? Of course at the level of the individual firm or even industry, a cut in employment may be inevitable. It is here that the need for re-training and so on already discussed manifests itself. But if productivity gains are used to cut employment in the economy as a whole, then the question stands. The answer could be the 'niggardliness of nature'; it could be that we really have come up against the limits of the supply of energy and raw materials needed to raise output any further. But alternatively it could be the 'injustice of society' or, if not exactly the 'injustice' then the defects of our institutions and the errors of our policies. To the present writer, the possibilities of resource scarcities in the future suggest every reason to welcome the cessation of population growth, as a matter of prudence at least. But unemployment is not currently created directly by either resource scarcities or any other aspect of the population factor.

Notes

¹ A. J. H. Dean, 'Unemployment among school leavers: an analysis of the problem', *National Institute Economic Review*, November 1976.

² W. B. Reddaway, *The Economics of a Declining Population*, 1939, p. 48.

³ G. P. Hawthorn, 'Some social consequences of growing numbers', in L. R. Taylor (Editor), *The Optimum Population for Britain*, 1970, p. 60.

⁴ J. Harris, *Unemployment and Politics*, 1972, p. 4.

⁵ 'Female activity rates', *Department of Employment Gazette*, January 1974, p. 8.

⁶ Calculated from *Annual Abstract of Statistics*, HMSO, 1980 edition, pp. 14 and 146.

⁷ 'The fall in the labour force between 1966 and 1971', *Department of Employment Gazette*, December 1973, p. 1084.

⁸ Not all commentators regard Malthus as 'pessimistic' and the heading is intended to provide a framework. K. E. Boulding comments that Malthus's message is one of hope since it 'reveals the nature of one dragon which must be slain before misery can be abolished'. *Collected Works*, vol. 2, 1971 p. 142.

⁹ J. J. Spengler, (Editor), *Population Problems in the Victorian Age*, 1973, editor's introduction, no page number.

¹⁰ T. R. Malthus, *An Essay on the Principle of Population*, 1978, Pelican Classics reprint, 1970, pp. 118-9.

¹¹ M. Blaug, *Economic Theory in Retrospect*, 3rd edition, 1978, p. 231.

¹² *ibid.*

¹³ J. S. Mill, *Principles of Political Economy*, Peoples' Edition, 1891, p. 118.

¹⁴ Spengler, *op. cit.* introduction.

¹⁵ K. E. Boulding, 'The economics of the coming spaceship earth' in H. Jarret, (editor), *Environmental Quality in a Growing Economy*, 1966, p. 3.

¹⁶ W. A. Lewis, *Economic Survey 1919-1939*, 1949, p. 195 and London and Cambridge Economic Service, *The British Economy Key Statistics 1900-1970*, p. 14.

¹⁷ P. Odell, *Oil and World Power*, 3rd edition, 1974, chapters 2 and 4.

¹⁸ Calculated from *Digest of UK Energy Statistics*, HMSO, 1980, table 2.

¹⁹ See for instance C. Freeman and M. Johoda (editors), *World Futures*, 1978, chapter 2.

²⁰ E. H. Phelps Brown and S. V. Hopkins, 'Seven centuries of the prices of consumables compared with builders' wage rates', *Economica*, vol 23, November 1956, p. 296.

²¹ G. Stedman Jones, *Outcast London*, 1971, p. 9.

²² A. Marshall, *Principles of Economics*, 1890, p. 691.

- ²³ W.H. Beveridge, *Unemployment: a problem of industry*, 1909, p.6.
- ²⁴ W. H. Beveridge, 'Population and unemployment', *Economic Journal*, December 1923, p. 447.
- ²⁵ *The Guardian* quoted by J. M. Keynes in 'Reply to Sir William Beveridge', *Economic Journal*, December 1923.
- ²⁶ D. Marquand, *Ramsay MacDonald*, 1977, p. 537.
- ²⁷ J. M. Keynes, 'Some economic consequences of a declining population', *Eugenics Review*, April 1937.
- ²⁸ A. H. Hansen, 'Economic progress and declining population growth', *American Economic Review*, March 1939, pp. 12-13.
- ²⁹ Calculated from United Nations Yearbook of National Account Statistics, 1969, vol. II, table 7 and 1972, vol. III, table 7. Compound annual rates of growth of per capita product.
- ³⁰ This is 'Verdoorn's law'. The original article is in Italian and was published in 1949. See N. Kaldor, *Causes of the Slow Rate of Economic Growth of the United Kingdom*, 1966, p. 10.
- ³¹ *OECD Observer*, no. 104, May 1980, p. 24.
- ³² C. Walker and M. Gee, 'Migration: the impact on the population', *Population Trends*, no. 9, autumn 1977, p. 24.
- ³³ For an example see A. Coale and E. Hoover, *Population Growth and Economic Development in Low Income Countries*, 1958.
- ³⁴ United Nations, *Determinants and Consequences of Population Trends*, 1973, vol. I, pp. 533-5.
- ³⁵ M. Lipton, 'Manpower and growth', *Aspect*, December 1963, p. 38. C. P. Kindleberger, *Europe's Postwar Growth*, 1967, chapters 2 and 4. Kaldor (see note 30), said to be the originator of Selective Employment Tax, also supported such theories for a time.
- ³⁶ E. H. Phelps Brown and M. H. Browne, *A Century of Pay*, 1968, p. 324.
- ³⁷ H. Wander, 'Zero population growth: theory and reality', in T. J. Espenshade and W. J. Serow (editors), *The Economic Consequences of Slowing Population Growth*, 1978, p. 66.
- ³⁸ W. B. Reddaway, 'The economic consequences of zero population growth', *Lloyds Bank Review*, April 1977, pp. 24-5.
- ³⁹ Quoted in A. Sweezy and A. Owens, 'The impact of population growth on employment', *American Economic Review*, Papers and Proceedings, May 1974.
- ⁴⁰ H. Wander, 'The working population' in Council of Europe, *Population Decline in Europe*, 1978, p. 55.
- ⁴¹ Sweezy and Owens, op. cit.

Further reading

- W. B. Reddaway, *The Economics of a Declining Population*, Macmillan, 1939. This has acquired almost classic status in the literature. Clear and readable, though rather disappointing on employment and unemployment.
- A. Sweezy and A. Owens, 'The impact of population growth on employment', *American Economic Review, Papers and Proceedings*, May, 1974. A very useful survey of the economic issues.
- Cmd 7695 (1949). Royal Commission on Population, Papers vol. vi Report of the Economics Committee, HMSO. The report of the Economics Committee is a very well written survey of a range of economic issues, including a balanced discussion of the effects of falling or zero rates of population growth on growth and employment.
- T. J. Espenshade and W. J. Serow, (editors), *The Economic Consequences of Slowing Population Growth*, Academic Press, 1978. A useful set of essays on various aspects of the population question, including one (by L. Neal) on the 'secular stagnation' thesis.
- A. Scaperlanda, 'Hansen's secular stagnation thesis once again?', *Journal of Economic Issues*, vol. xi no.2 June, 1977. An interpretation of recent increases in unemployment rates in terms of the secular stagnation hypothesis. Mainly refers to the USA.
- J. J. Spengler, 'The economist and the population question', *American Economic Review*, vol. 56 no.1 March, 1966. A wide ranging, though rather diffuse review of the population question as seen by economists since 1800.
- A. P. Thirlwall, *Growth and Development* second edition, Macmillan 1978. Although concerned mainly with developing countries, there is a very clear chapter on the population problem.
- R. A. Easterlin, *Population, Labour Force and Long Savings in Economic Growth*, Columbia University Press, 1968. An extremely detailed and complicated presentation of what has come to be called 'the Easterlin hypothesis', concerning inter-related rhythmic cycles in birth rates and economic change. The same author's *Birth and Fortune: The Impact of Numbers on Personal Welfare* 1980 was published too recently for consideration in this chapter.
- United Nations, *The Population Debate: Dimensions and Perspectives* vol. I, United Nations, 1974. Detailed, long and not easy to read, this report of the United Nations conference in Bucharest covers most aspects of the interactions between demography and social and economic conditions.
- E. H. Phelps Brown and M. H. Browne, *A Century of Pay*, Macmillan, 1968. The majority of this work is concerned with wage rates and their share in the national product of five industrial countries, including Britain. The concluding chapters however include some interesting reflections on the relationships between population growth, employment and income.

8410
0470
9210
U.K.

Children in society 1850-1980

P. E. H. HAIR

This essay sketches certain quantifiable aspects of the history of British childhood in the period between 1850 and 1980 — the numbers, mortality and family-distribution of children, and the process of direction of children into labour and schooling. Quantitative data on these matters, largely unavailable for earlier centuries, began to become available in the mid-nineteenth century and has since become increasingly full, detailed, accurate and complex; though of course even today the data is not so complete that it tells the historian all he wants to know.¹ Usefully delimited by this condition of data availability, the period 1850-1980 nevertheless benefits from being studied in historical perspective, not least as regards its demography.

The history of British population comprises two periods of dramatic change separated by four centuries of relatively minor fluctuation. The explosion and subsequent collapse of an agricultural and rural population in the period 1100-1350 is known only in outline; but the explosion and subsequent controlled deceleration of an increasingly industrialized and urbanized population after 1750 can be and has been closely studied. It is true that our understanding of childhood during the first century of the latter movement is seriously hampered by lack of quantitative data and by the thin, partial and often patently tendentious evidence of non-quantitative sources. Yet it would be absurd to consider the numbers, mortality and family distribution of British children after 1850 without taking some note of those broad (and plausibly evidenced) trends of the previous century which produced the conditions of 1850. After all, the century after 1750 generated children to an extent which made the numbers in 1850 startlingly different from those at any of the earlier mid-centuries between 1350 and 1650.

The concept and therefore the chronological definition of 'childhood' vary as between cultures and periods (it was left to later nineteenth-century societies in western Europe and north America to discover 'adolescence'). For simplicity, this essay will follow the chronological definition adopted in the major part of the historical data. Unless exceptionally specified as being 'under 17' (aged 0-16), the children discussed in this essay were individuals under the age of 15 (ages 0-14).

It is often kindly pointed out that quantitative data does not tell us about what is unquantifiable. This essay certainly does not claim to depict more than a few aspects of past British childhood. Yet the quantitative data must have some bearing on what can be reasonably asserted about the unquantifiable. Those unhappy with conclusions from quantitative data sometimes prefer to invoke their own subjective judgements on 'the quality of life'. I shall conclude the essay by briefly considering whether what we have learned about British childhood from quantitative data requires to be set against a 'quality of life' assessment.

Numbers of children

The outline of the demography of British childhood since 1850 here presented aims to offer a few general conclusions, to identify a few critical areas of uncertainty, and, perhaps most important, to indicate to the general reader the extent of the quantitative data and its limitations.

It is highly likely that since 1750 the number of children in Britain has increased decade by decade, almost without exception. The experiences of the two regions here taken to constitute 'Britain', England and Wales on the one hand, and Scotland on the other, have been similar though with significant minor differences.² Since 1750 the increase in the number of children has been very considerable, perhaps more than three-fold; but the increase in the period under study, from 1850 on, which we can measure more or less exactly, has been proportionately much less, having been only about 50 per cent.³ From what we know about the post-1850 period we can infer some of the demographic trends of the century before 1850; and it would seem likely that the increase in the number of children was not only steeper in the mid-nineteenth century than it was to be thereafter, but that a relatively steep increase was equally the experience of the earlier nineteenth century and of much of the later eighteenth century. This sharp decade-by-decade increase was a factor in contributing to the social mentality of the decades immediately after 1850, a

factor which the mid-and-later twentieth century, lacking this experience may fail to allow for when attempting to understand Victorian social behaviour. Since the sharp increase was, almost certainly, not new in 1850, British society at the beginning of our period was already accustomed to the pressure of 'excess' numbers each decade. On a longer view, however, for a century and a half (or so) after 1750, British society had to cope with many more children each decade, a national problem it had not faced in the previous four centuries. And the increase was particularly sharp and therefore socially disturbing during the nineteenth century. 'Suffer little children to come unto me' may have been a favourite Victorian text, but the Victorian era was the first in British history to find itself forced to take thought about a flood of children.

In the twentieth century the increase slowed down, with marked deceleration at times, even to the extent of the 1920s and 1930s recording a slight dip in numbers, though later decades resumed the slow increase. However, recent indicators strongly suggest that the present decade, the 1980s, will be a final turning-point. The decline will be decisively resumed and the 1980s will mark the end of a 200-year era of British history, an era of virtually continuous growth in child population. Yet a *caveat* is necessary. Within the long-term trend of increase in child population, short-term fluctuations have been so common that contemporaries have generally failed to predict either set of trends with any exactitude. (Hence, the claims sometimes made that a communal 'social policy' closely tailored to child population trends should have been, has been, or was being developed seem a little unrealistic.) The prediction above, that numbers will now decline, may turn out to be similarly based on false or inadequate assumptions, for instance, on the assumption of the persistence and dominance in Britain of the traditional genetic stock.

That the number of children increased decade by decade after 1750 is highly likely but not certain, for the following reason. Children were only separately counted on a national basis, first (and incompletely) in the 1821 census, and then in decennial censuses from 1841 (omitting 1941 the wartime year when no census was taken).⁴ Thus, full and regular enumerations of child populations are only available from 1841 — just as detailed national figures for numbers of births and for child mortality are only available from 1838 for England and Wales and from 1855 for Scotland. For the demography of childhood in the century before 1850, as indeed to a large extent for the overall demography of that century, we therefore have to make do with very ingenious yet somewhat speculative estimates, derived in the main from the

limited amount of hard evidence that can be drawn from parish registers and listings. Thus we may fairly reasonably deduce a continuous increase in the number of children in England and Wales from the continuous increase in baptisms shown in the admittedly much-less-than-satisfactory parish register totals; the Scottish evidence is, alas!, a good deal thinner. Still, we cannot seriously doubt that the number of British children was regularly increasing during the century immediately before 1850. Thereafter we can be more definite. From 1841 the printed census returns give us moderately exact figures for numbers of children by ages, tabulated in five-year spans; and from 1851 they give ages tabulated by individual years up to age five, with estimated (or later, enumerated) figures for individual years following up to age 16. Since these statistics were prepared separately for England and Wales and for Scotland the overall experience of child population increase can be analyzed in terms of two regions and various age-spans.

So much for the data — or in some areas — the lack of it. The figures for numbers of British children of all ages (0-14) are as follows. In 1850 there were 7.3 m. children (See Appendix Tables 3a and 3b). Arguably the number had risen steadily from 1750, when it may well have been less than half that in 1850. By 1980, the number was just over 11 m., half as many again as in 1850. But this was only a modest increase for a period of 130 years, and it is very telling that the total had been floating around the figure of 11 m. since 1880. Scotland, though providing a small component of the British total, pulled downwards throughout: its child population increased less steeply than England's in the nineteenth century and declined more decisively in the mid-and-later twentieth century. All told, the number of children living in Britain between 1850 and 1980 was of the order of 100 m. As we shall shortly see, of this number at least one tenth died as children, without reaching adulthood.

The overall increase in child population just outlined becomes more meaningful to the social historian when we dissolve out the blunt concept of 'child' and refocus on specific age-groups of children. The data allows us to generalize with fair ease about 'infants' (children in their first year), 'toddlers' (children aged 1-4) and 'children of school-age' (children aged 5-14 — disregarding for the moment that in the nineteenth century schooling often stopped earlier and that in recent decades the term has applied to children aged 5-15 and aged 5-16). Between 1841 and 1971, the trends in numbers of children at these ages was, very broadly, the same as the overall trend, that is, numbers rose, at first steeply, then less

and less steeply, until they levelled off and even declined. But this pattern, this curve, varied chronologically as between age-groups, very significantly.

To begin with infants. The number rose 1841-1881, but thereafter more or less levelled off, with a serious dip 1931-1951, then recovered until it fell away in 1971. In contrast, the number of children of school age not only rose 1841-81 but continued to rise, though less steeply, until 1911. It then dipped slowly until 1951, when it recovered to reach a new high in 1971 — though it must fall sharply in the 1980s. Thus, whereas there were more children of school age in the 1970s than ever before in British history, the largest number of infants occurred in the late decades of the nineteenth century. (But since infant mortality was then high, the total of completed infant-years was less than that in later decades, less for instance than in the 1960s). The pattern for numbers of toddlers was different again. The number rose sharply from 1841 to a peak in 1891-1911, and after a dip rose again to the same peak in 1951-71. These differences in age-group trends have been partly the logical result of general factors working up through the ages, particularly the effect of family limitation by contraception, which kept down the number of births from the 1880s; and partly the rather less predictable results of differential reductions in age-specific mortality. To family limitation and child mortality we shall be returning shortly.

How were these numbers of children distributed throughout British society? Distribution by families will occupy a section of this paper. But otherwise the distribution need not be discussed at length — its features are often of importance for local history but of limited significance at the national level. The close natural balance of numbers between the sexes averaged throughout the nation contrasted with the imbalance maintained in a few districts, particularly in earlier decades, when girls or boys in their mid-teens were drawn away from home into districts specializing in more-or-less single-sex industries, such as textiles (especially cotton), domestic service or mining. But as long as children remained at home boys and girls were found in almost equal numbers. The geographical distribution of children changed greatly over time, but only shadowed the distribution of parents. That is, more and more children came to live in towns and in new industrial districts, in the nineteenth century in London, central and northern England, and central Scotland, in the present century in London and southern England. New industrial districts attracted young adult immigrants, men and women, and thus generated babies in large numbers: the high proportion of infants and toddlers in the total

population often persuaded innocent visitors that the local adults were unduly prolific.

Mortality of children

The almost simultaneous beginning of census-counting of children and of secular registration of deaths enables child mortality to be assessed quantitatively from the 1850s. The overall trend is very clear: a constant decline.⁵ The rate and timing of the decline varied between age-groups and between social groups, but these significant variations should not direct attention away from the major feature; a decline in mortality despite a growth in numbers. This was a phenomenon most likely new in world history; though it must be immediately added that more rapid improvement occurred in the present century when numbers increased less steeply, a shift back towards the more common historical phenomenon, 'More mouths, less cake'. The figures may be presented briefly thus. Of 1000 children born in each of the years 1850, 1900 and 1950, there died in childhood, without reaching the age of 15, respectively about 300 in 1850, about 230 in 1900, about 40 in 1950. This reduction of child mortality, so drastic as to approach elimination, forms the thematic centre point of this essay; and many might consider it the same in relation to the social history of Britain in this period.

Now let us look at the age-specific mortality of infants, toddlers and school-age children (5-14). Throughout the period there has been no change in relative positions, the pattern being a traditional and universal one: older children survive better than toddlers and toddlers than infants. (The most dangerous hours and days of life have always been and probably always will be those immediately after birth). However throughout the period deaths of infants, toddlers and older children have all been reduced very sharply. The mortality of older children fell off from the time the records begin, around 1850; that of toddlers fell off from about 1870; and that of infants fell off from about 1900. Thus the Victorians succeeded in saving lives of toddlers and older children, but it was left to the twentieth century to reduce infant mortality. And since child mortality is heavily weighted by infant mortality, this means that the former was reduced more strikingly after 1900 than it was before. It is tempting to argue, speculatively, that infants could not be saved until two pressures within the family had been relieved, by the slackening of births and by the removal of older children to school, both processes having gained ground in the late Victorian decades. Infant mortality stood at around 160 (deaths per 1000

live births per annum) between 1850 and 1900, so that one in six of babies died in the Victorian era; but by the 1950s it had fallen to under 30 — the improvement since 1900 having been sharp and steady in each intervening decade, including the 'distressed' 1920s and 1930s.⁶ Toddler and school-age mortalities fell from around 35 and seven (deaths per 1000 living per annum) respectively in the 1850s, to around 20 and three in the 1900s, and to around 1.0 and 0.4 in the 1950s. Thus, at the beginning of the period one in seven of toddlers died during the four years of toddlerhood, and one in 14 of older children during the remaining years of childhood: today the rates are so slight as to be almost accounted negligible.

Mortality as between 'social classes' was not investigated closely until the present century, but there is vast scope in the riches of later-nineteenth century demographic data for investigating differences between regions, rural and urban areas, sections of towns, and to some extent occupations. As a result of such investigations to date, we can be reasonably certain that children at all ages have, throughout the period, tended to survive best in upper-class homes, next in lower middle-class and 'decent' working-class homes, and worst in exceptionally 'deprived' homes — in homes with unskilled or unemployed family heads, in slum homes, in one-parent homes, in homes where one or both parents were sick or mentally or emotionally incapable, or socially irresponsible (and it was worst of all for children if they were born bastards). Since the exceptionally deprived formed a minority of the nation, mortality in these 'black spots' was often well above the national average. These social gradients in mortality continue to exist to the present day, with only limited diminution. But the pace of overall decline in mortality has been such that the most privileged child mortality of one generation has tended to be higher than the least-privileged of the next — though it may be conceded that this process can hardly continue indefinitely.⁷

If reduced child mortality spread from the top, so did contraception, which, though it had made inroads among the more privileged working classes by 1900, apparently in the main by awkward self-control methods (a testimony to considered family responsibility among the parents involved), had still left untouched most of the nation. No doubt the continuance of relatively high child mortality and hence of uncertainty about completed family size among less privileged groups inhibited the development of any pressure for deliberate family limitation. But child mortality and the spread of contraception were not everywhere tightly linked since each was also affected by social factors not economically determined. (The modestly prosperous coalminers

of the North East, an ingrown and socially-conservative group, resisted contraception until the inter-war depression.) How, for instance, was child mortality affected by the topographical environments of countryside and town? On account of its historical implications, this is a question not to be lightly answered.

The 1850s marked the watershed between a British population largely rural and a British population largely urban and industrial. Hence it is misguided to assess the child mortality of the century immediately before 1850 by pointing to estimates of the child mortality of a minority of industrializing districts. (And it is even more misguided to assess pre-1850 industrial mortality by inferring it from tenuously relevant crude rates, for instance, by inferring phenomenally high infant mortality in Manchester, Liverpool and Glasgow solely from a high proportion among burials of those of infants – without noting that the immigrant structure generated more births, hence more dead infants, irrespective of industrial-urban living conditions.⁸) However, in the absence of exact statistics for the century leading up to 1850, it is common for historians to draw a black-and-white picture of child mortality fearfully increasing as industrialization spread, and to justify this on the grounds that in the second half of the nineteenth century rural mortality tended to be lower than urban mortality, as it certainly did.

But there are grounds for doubting whether this procedure is justified. First, because rural mortality itself improved after 1850, and the presumed change in rural conditions which caused this prevents us assuming that rural experience after 1850 can stand in for rural experience before that date; secondly, because parish register studies indicate that very high infant mortality rates existed and persisted in certain rural localities during the earlier modern centuries⁹; and thirdly, because the post-1850 statistics show mortality gradients across rural as well as across urban areas, with significant regional and local differences. The existence of child mortality black spots in post-1850 urban areas did not prevent the general improvement of urban child health (the balance between country and town so rapidly tipped in favour of the latter that by the end of the nineteenth century national averages were heavily weighted by urban experience.) What then of the rural black spots detected both after 1850 and before? Were they as exceptional as the urban ones? Or instead do they testify to, or are typical of, the general rural experience of the past? It is not at all easy to say which view is right. The experience of child mortality in the century immediately preceding 1850 is therefore still in the main an unsettled issue.

It is unlikely that child mortality increased sharply with the onset of Industrial Revolution after 1750; it is not very likely that it increased markedly between 1750 and 1850; and it is just conceivable that rural mortality was so high before 1750 that the decline in child mortality after 1850 actually began a number of decades earlier. However perhaps the most plausible view is that the appearance of urban black spots, as industrialization advanced, tended to cancel out gains in rural or petty-urban health; and therefore that in the century before 1850 child mortality on average in Britain remained fairly stationary. If this last conclusion is correct, we can again see 1850 as initiating a new chapter in British social history. Marked decline in child mortality was another novel phenomenon in British history and therefore, like the marked increase in numbers which began somewhat earlier, was for contemporaries unexpected, unplanned and at first unrealized.

Children in families

It is a little far-fetched to discuss children without considering the adults who produce them, that is, without seeing the children in families. Unfortunately, whereas we have exact demographic data on children as individuals — hence the earlier discussion of numbers and mortality — for most of the period little data was produced, or at least published,¹⁰ on the more complex matter of children in families. We have often to rely on sample surveys reporting past experience rather than on contemporary data; and in general the elaborate evidence we have for the second half of the period is lacking for the first half. The historical discussion in this section is therefore often speculative.

Trends in child population size and total population size are naturally inter-related, both synchronically and over time. In the case of Britain 1850-1980, the general trend for both populations has been upwards, steeply so in the nineteenth century, less and less steeply so in the present. The deceleration of the increase operated sooner for children, to some extent logically, but in fact also because adult mortality declined — adults lived longer so there were more of them to count. The result of the different paces in trends is striking. The *proportion* of children in the total population has declined smartly during the period. Between 1841 and 1891 the proportion was rather over one third (around 36 per cent), but between 1931 and 1961 it was just under one quarter (around 23 per cent).¹¹ (See Appendix Tables 3a and 3b). Thus the mid-and-later twentieth century has notably fewer children to

adults than had the Victorian period. What caused this? Briefly, adults have increased, children been limited. Mortality has fallen for all adults, hence the vast majority of parents now live to see their children into adulthood. Further, in the present century the number of elderly and retired persons has greatly increased, so that the majority of children now know at least half of their grandparents throughout most of their childhood — yet another novel feature in world demographic history. But at least as important as the better survival of adults has been the adults' reluctance to produce 'excess' children, that is, long-term reduction in family size.¹²

Whereas well over 70 per cent of couples who married in the 1870s (and who survived until the woman was past childbearing) produced four or more children, over 70 per cent of those married in the 1920s and later (and who survived similarly) produced fewer than four. Completed family size is of course affected negatively by child mortality, and large Victorian families were whittled down to some extent in this way. Indeed, it may be surmised that it was only when child mortality visibly fell that parents wholeheartedly went in for producing a minimum rather than a maximum of children, knowing that all the smaller number would almost certainly survive. Again, in the case of some Victorian families the prevailing adult mortality killed off one parent and prevented child-bearing being completed by that couple; and perhaps it was fear of this which led to rapid childbearing after marriage. Despite these qualifications, the stark contrast remains: the typical mid-Victorian completed family contained not less than four children, with almost equal frequencies of between four and ten children: the typical mid-and-late twentieth century completed family contains under four children, with almost equal frequencies of between three and nil children, and families of eight or more children are very uncommon. Of course there have been regional, economic and social (e.g. religious) gradients in this movement, typified perhaps by the fact that family size is only just beginning to fall among poor Catholics in North West England and West Scotland.

What was the social and psychological significance of this change, above all for the children concerned? Once again it would help if we knew more about the demography of childhood in earlier centuries. The popular view that because Victorian families were large there were more children around in Victorian Britain than ever before or since is probably untrue as regards 'before' though true as regards 'since'. The incomplete census returns of 1821 suggest a proportion of children in the population rather higher than the 36 per cent of the mid-Victorian period, and there is fairly

sound evidence (including Gregory King's age-distribution sample for c. 1695) for supposing that the proportion stood at about 40 per cent in the earlier modern centuries. Therefore, although we can be certain that the Victorians would have found it difficult to envisage the paucity of children in our recent society, the comparative abundance of children in theirs probably did not strike them as novel or curious. Nevertheless, it can be argued that there was something new in the distribution of Victorian children, and that this demographic factor needs to be taken into account in assessing Victorian and post-Victorian society, as does the sheer increase in numbers. The novelty lay in the containment of these abundant numbers of children within stable and long-term families.

At first sight it is difficult to reconcile the declining child mortality of Victorian society with the even higher proportion of children in earlier societies — that is, without invoking implausible suppositions, such as that child mortality shot up before it declined, or that pre-Victorian parents produced more children. The explanation is instead to be found, most probably, in a higher adult mortality in earlier periods. While Victorian parents reproduced no more briskly than their ancestors, they sometimes reproduced longer, because fewer parents died; and this, taken with the decline in child mortality, meant that they finished up with larger surviving families than ever before. On the other hand, if pre-Victorian parents tended to die more rapidly, both during the child-bearing period and after it, then, even allowing for a child mortality no lower than that in 1850, the proportion of children in the population might well finish up higher. Two suppositions could follow from this (slightly speculative) analysis. One is that Victorian parents, finding themselves, because of their own and their children's better survival, with families actually or potentially larger than those of their ancestors, turned to forms of birth control to provide the family limitation which nature and mortality had provided earlier. The second supposition is that the children of pre-Victorian times were less frequently contained throughout childhood in stable long-term families. Though there is much less evidence for this than for Victorian and post-Victorian family patterns, what we do know does not contradict the supposition.

Whereas mid-and-later twentieth-century children expect to grow up knowing throughout childhood not only both parents but also some of their grandparents, the children of the centuries before the nineteenth regularly knew none of their grandparents, frequently knew only one of their natural parents (though this one was often united to a step-parent) and not uncommonly knew no

parents. That is, there were large numbers of orphans (including many without grandparents and some without any relatives), foundlings and homeless children, one-parent families and step-parent families.¹³ Now the Victorian family fell between these extremes. As it became demographically possible, for the first time in British history, for most surviving children throughout childhood to live with parents and even to be in contact with some grandparents (an important figure in Victorian urbanization was the child-minding granny),¹⁴ the concept of the normality of a long and stable family life was realized. Children were distributed more exclusively within long-term family units, and the long-term family unit became more exclusively the normal social unit. The Victorians and their immediate successors appreciated the new norm of a long and stable (and introverted) family life, they publicized, idealized and romanticized it, they pressed its sanctions a little tediously in all directions, and also, being only human, they at times revolted against it. But in the decades since, and despite shifting demographic reality, the Victorian norm has powerfully influenced family life in all classes.

Looking at the period in historical context, we can detect (a) a *growth* generally in average completed family size and specifically in the proportion of families with four or more children surviving childhood, a process whose beginnings are difficult to date but which was most likely well under way before 1850, and which continued until probably the 1890s; followed by (b) a sharp *decline* in average completed family size and in the proportion of large families, levelling out and fluctuating slightly in recent decades. Of course in the nineteenth century there was, at any time, a large number of incompleting and smaller families, because in a period of rapidly growing population there are more marriages in the early stages of family formation than in the later. Further, in the nineteenth century older children continued to be exported from the home, perhaps in increasing numbers as their siblings survived, and then in decreasing numbers as less siblings were born, so that trends in numbers of children actually present at home are difficult to assess. But there can still be no doubt about the contrast between the Victorian child who generally grew up in a home with several if not many siblings, and the mid-and-later twentieth century child who generally grows up, if not as a single child, then as a child with only one or at the most two siblings. Many of the implications of this change are too far-reaching or too close to ourselves to be sure about, but some are worth considering.

The sympathy generously spilt by historians on the nineteenth-century male adult worker, beset by industrialization, urbaniza-

tion and poverty, might be more shrewdly expended on his wife. The irony of improving national health was that it left the Victorian mother with a burden her ancestresses had not known, a string of children in the home, and particularly, when toddler mortality fell, an excess of toddlers under her feet. Compared with her ancestresses, the Victorian mother had fewer child-deaths to get over but more child-years to endure. In so far as the older girls had to look after the younger children, these responsibilities began even before marriage. It may well be that attention to insatiable toddler demands, giving less time for care of the baby puling in the cradle, helps to explain why infant mortality fell late — and only after birth control had helped to space out the excess toddlers.

As for the children themselves the Victorian child tended to grow up in close association not only with siblings of ages close to its own but with siblings of the other sex, points which may have made post-childhood socializing easier and less narcissistic than that of later times. (As family size declined, adolescence had to be invented.) It is debatable whether children gain more in security, balanced individualism, and enterprise in a large family than they do in a small one; but it is certain that the Victorian child witnessed and even participated in, for better or worse, the adult crises of normal humanity which the mid-and-late twentieth-century child tends to miss as a child — birth and nursing, serious illness and death, courtship and marriage.

The upbringing of children: work and schooling

Two major aspects of the upbringing of children in our period, the cost of upbringing and the mode of socialization, can usefully have some light thrown on them by analysis of the available quantitative data. The data specifically refers to the direction of children to work and/or to schooling, two powerful elements in the overall cost to the nation and to the family, and two important forms of socialization. Let us begin by laying down the supposition that because Victorian parents tended to have to support larger numbers of children than is the case with their descendants or was the case with their forebears, the cost of upbringing loomed larger over the family budget than it had ever done before or was to do since. To this it might be riposted that the Victorians had one advantage on the positive side of the budget — their children from an early age were sent out to work and earn. How much truth is there in this last generalization? To inquire what proportions of children of various ages under 15 were in fact at work during the period we turn to the

censuses, which from 1851 counted children 'in specified occupations' — we shall call these the 'occupied' children.

Because the numbers had become negligible or nil, the census did not bother to count up the occupations of children aged under 10 separately after 1871 and at all after 1881, of children aged under 14 after 1931, and of children aged under 15 after 1951. The number of occupied children aged between five and nine was always very small. In 1851, out of 2.2 m. children of this age-group in Britain, only 85,000 or 3.5 per cent were occupied; and the proportion fell in 1861 and 1871. Even if in this case we allow a very high margin of error in the returns, there cannot be any reasonable doubt that the vast majority of children under ten did not undertake any regular gainful employment, not even at the beginning of the period. Children therefore normally began work when they were ten or over. The proportion of children aged 10-14 who were occupied was 30 per cent in 1851, and then fell off, decade by decade, to 17 per cent in 1901. More boys were gainfully occupied than girls, roughly half as many again, for instance, 37 per cent of boys were so occupied in 1851, 22 per cent of girls.¹⁵ Thus, even in 1851 the majority of this age-group were not occupied. Distribution within the age-group probably followed the pattern revealed in 1911, when only 2 per cent of children aged 10-13 were occupied, but 17 per cent of children aged 13 and 52 per cent of children aged 14; and in 1921, when only 5 per cent of children aged 12-14 were occupied but 52 per cent of children aged 14-16. All this confirms the commonsense expectation, that children were more frequently sent out to work as they grew older. To sum up, while there was a general trend throughout the period in the direction of reducing the proportion of children at work, so that the period concluded with no children at work (at least full time or legally), it would be quite incorrect to suppose that the period began with all children, or even most children, at work. It was only in the case of the oldest children, those 14 and over, that the majority worked (the vast majority of boys, not quite so many girls). Turning to younger children, while work began at all ages from five on, only tiny proportions of children ever worked before nine; and although increasing proportions worked at 10, 11, 12 and 13, it is unlikely that even at the beginning of the period the majority of children were working before the ages of 11 and 12.

Very little is known with any quantitative exactitude about child employment before 1850. However an important clue is afforded by analysis of the occupations of children in the later decades of the nineteenth century (in England and Wales). In 1851 the industries employing most children were agriculture (100,000,

mainly boys), textiles (100,000 boys and girls), and domestic service (70,000 mainly girls). Agriculture fell off after 1871, but domestic service and textiles (becoming predominantly cotton and girls gaining over boys) increased until 1891. (From 1901, the total number of children in employment began to decline.) But the industries mentioned account for less than half the occupied children in either 1851 or 1891: where were the rest? In fact, agriculture (and other rural industries) and domestic service accounted for about one third of child labour in the later nineteenth century; textiles and the heavy industries (coalmining and iron-manufacture especially) accounted for rather more than one third; but the remainder, almost a third, was distributed over a very large number of trades (e.g. 11,000 boy shoemakers in 1851, 17,000 girl milliners in 1891) and humbler vocations (e.g. 40,000 errand boys in 1851, 17,000 drapers' shop-boys in 1891). Only the middle group represented the booming industries of Industrial Revolution, and over half the children worked in traditional pre-industrial occupations. It can be inferred that child labour was not the product of industrialization and that large numbers of children were employed in agriculture, domestic service and trades long before 1850. Given the increase in population it is not unlikely that the number of children in employment increased with industrialization, but whether the proportion increased is uncertain. Although a short-term increase during the century before 1850 is not implausible, the modest proportion of children employed in 1851 makes it likely that the long-term trend during the previous century was the same as that after 1850, downwards.

The above view gains some slight support from fragmentary data on the ages at which children began work before 1850. In the early 1840s samples of children in various industries were surveyed and interviewed about entry-age.¹⁶ Because only children already at work were interviewed and because the surveys concentrated on younger children, the average entry-ages of these samples were not only much lower than the overall average entry-age of 1851 stated above but also somewhat lower than the true average entry-ages c. 1840; nevertheless comparison of these entry-ages suggests one conclusion. The average entry-ages of children (both boys and girls, sometimes calculated separately) in Birmingham pin-making and metal trades, Nottingham lace-making, Lancashire print-works, Yorkshire worsted manufacture, and coalmining throughout Britain (coalfields calculated separately) fell between 8.0 and 9.8 years; and for London trades the average was 10.8 years. But in farming in Dorset the average entry-age was only 7.8 years. Thus the most traditional industry had the lowest average

entry-age. Another straw in the wind is that when 74 coalminers who had begun work before 1810 were interviewed *c.* 1840, they gave entry-ages averaging 7.5 years, lower than the average entry-age of children who began in coalmining *c.* 1840. Finally, the surveys *c.* 1840 show that children were then beginning work at all ages between five and 14. The surveys made a point of hunting for children who had begun work at a very early age. For instance, among the 15,000-20,000 children employed in coalmines throughout Britain, one child of four was met, and out of 3,000 children interviewed about a dozen claimed to have begun work when they were four. Entry seriously began at five, and of those surveyed about 10 per cent had begun at five or six; about 60 per cent at seven, eight or nine; and about 30 per cent at ages between ten and 14. The true figures were probably near the reversal of the last two.

Two important points emerge from this discussion. One is that entry to child employment was staggered. In the nineteenth century – and presumably throughout earlier centuries – the proportion of children at work was unequal between ages and between the sexes at the same ages, and it was therefore unequal between families and within families. Some children went to work early, most did not; some children stayed at home till late, most did not. The reasons in individual cases were no doubt the family's economic, social and moral circumstances at a particular time. The family budget, the birth order, the sex of the child, and local work opportunities must all have played a part. But the final decision was normally taken within the family. (Therefore to discuss 'the exploitation of children' solely in terms of the experience of a handful of workhouse orphans is peculiarly misleading.) In complete contrast to this Victorian state of affairs is that of the egalitarian but regimented mid-and-late twentieth century, when all children are directed in precisely the same way at precisely the same ages – away from employment and into schooling, *en bloc*, between the ages of five and 14, 15 or 16. In this direction of its children, the family has no say.

The second point also has ideological content. Historians contemplating past childhood often appear to share the supposition of the post-1850 censuses, that an 'occupied' child can always be clearly distinguished from a child not occupied. Thus 'at work' is conveniently contrasted with 'at home' (as in preceding paragraphs). Yet we know of course that in earlier centuries much industrial work was done literally at home.¹⁷ The problem becomes acute when we consider the labour of girls – the 1881-1901 censuses tied themselves in knots trying to decide whether girls who

'helped at home' full-time should be counted under the occupational head of 'domestic service'. Throughout the earlier part of the period older girls helped to keep the wheels of industry turning, and mothers from distraction, by full-time baby-minding and other domestic duties, either for out-at-work parents and relatives, or just for hard-pressed mothers and aunts, without being gainfully employed. Again, it is highly likely that among the over 90 per cent of children aged 5 – 9 and 70 per cent aged 10 – 14 who counted in the census as 'not occupied' there were large numbers who did little or not-so-little jobs around and about the home, and sometimes further afield – running errands, carrying meals to fathers at work, shopping for parents and neighbours, helping tradesmen, and perhaps even lapsing into being gainfully employed for odd hours or odd weeks (for instance, in agriculture, at harvest-time). The tasks were perhaps mainly for social convenience but as contemporary economists pointed out, they contributed to family budgets and the national economy. Thus, just as the nation's children, as they grew up, cumulatively moved towards total employment, so individual children moved gradually towards being 'occupied'. The notion that children were normally transferred in one stage from an idyllic nursery existence at home to the harsh world of the factory work-bench or the mill production-line is absurd, though middle-class reformers at the time often talked as if they believed this.

Labour being the universal lot, Victorian children were trained to accept labour from an early age, in order that when they became adults they might exist independently, as the society of the day (not unreasonably in terms of its own circumstances) demanded. Children were therefore socialized through labour. But this was done at various paces – justly or unjustly for the individual child. That some children went out to work early is certain, yet whether they were 'worse-treated' thereby than, say, their sister who stayed at home and did house-work, is hardly possible to say. Children themselves had mixed views: according to the interviews in the reformers' Blue Books, while some children complained about work, there were others who delighted to leave the baby-ridden atmosphere of home. Those left at home were never interviewed. Since Victorian children were indoctrinated to expect labour to at least the extent that mid-and-later twentieth century children are indoctrinated to believe that all child-labour is wicked, it is likely that most Victorian children were not unduly distressed by either the prospect or the reality of going out to work, even when the conditions of labour were such that their mere telescopic contemplation induces mild hysteria in latterday reformers, politicians

and historians.

The period saw both the virtual elimination of gainful employment for children, and the triumph of schooling, that is, the emergence of universal, compulsory, regular, full-time, extended-term schooling. Neither process was as dramatic as commonly represented, and the connections between the two forms of direction and socialization of children are more complex than sometimes suggested in political and economic histories.¹⁸ It was not merely a matter of political will and legislative ukase, outlawing the one, sanctifying and commanding the other; nor was it merely a matter of economic reflexes, with poverty compelling parents to send children to work at the beginning of the period, and riches, acquired by sound Victorian capitalism and imperialism, enabling child labour to be progressively dispensed with. For we have seen that even in 1851 many children under 15 were not 'occupied'; hence, the legislative veto on child employment, as it developed step by step (mainly in 1833, 1842, 1844 - 5, 1847, 1860 - 2, 1864, 1867 and 1874) meant, as far as the younger ages were concerned, say, up to 10 or 11, only that a minority of that age group within the nation was brought into line with the majority. Even when it came to the turn of the children of older ages up to 16, who were excluded not so much by direct veto as by direction into schooling, what would certainly have been a major social revolution had it occurred in mid-Victorian times, was much less so later, because children at those ages had already come to be less exclusively at work.¹⁹ In other words, parents preceded reformers in deciding for more schooling. As we shall shortly see, schooling extended widely long before effective state intervention, yet was in large part paid for directly by parents. Thus, in mid-Victorian times many parents not only kept at least some of their children away from early work, foregoing the economic advantage, but also sent them instead to school for at least some part of their childhood, to the further disadvantage of the family budget. Their motives we shall shortly examine.

The category of the early occupational censuses relating to school children (often headed 'scholars') is somewhat indeterminate and ill-defined. To remind the reader of this, we shall coin the term 'schooled' to describe the children enumerated.²⁰ It is likely that almost all schooled children were actually attending a school, though less likely that all were attending regularly; it is unlikely that most had attended or would attend for more than a few years of childhood; and it is conceivable that some had only a slight record of attendance in the past and little prospect of future attendance. But though we would do well to set our sights low

regarding the school experience of schooled children as a category, we can still accept that these children had at least some acquaintance with the three Rs and were, in the opinion of their parents, to be sharply distinguished from illiterates. Up to 1871 schooled children were counted by the censuses: thereafter more specific (though for long less than fully satisfactory) Education Department statistics quantify schooling. What we learn from these figures is that during the third quarter of the nineteenth century far more children under 15 were schooled or were school-children than were at work. In 1851, when only 3.5 per cent of children aged 5 – 9 were 'occupied', 58 per cent were 'schooled'; and whereas only 30 per cent of those aged 10 – 14 were occupied, 41 per cent were schooled.²¹ By 1871 the proportions occupied had fallen but the proportions schooled had risen to 68 per cent and 53 per cent. Because figures for other individual years of age are not available in the printed censuses, it is not possible to say what proportion of children were 'never-schooled'. But if schooled children were on average at school for not more than two or three years, then the schooled proportion must have been very high and the never-schooled very low. This was the conclusion of the Newcastle Commission in 1861; that most children were schooled.

It would seem that, confronted by two avenues of extra-domestic socialization for their children, work and schooling, most Victorian parents wisely hedged their bets by choosing both. By the age of 14, very few children had *never* been gainfully employed full-time; and very few had *never* had any form of schooling, even though up to the 1880s most schooling required fees from parents. Educationally speaking, at the time there may well have been little to choose between these two forms of training for adult life (the equation of education with schooling is of course a twentieth-century preconception); and most parents, unconstrained either way by legislation and state power, had an element of choice in relation to individual children in individual years. However the options for parents when socializing their children were of course not confined to work and school; most socializing is still done at home, before and between extra-domestic socializing, and a Victorian child, after infancy and toddlerhood, could be neither at work nor at school but could continue at home, sometimes for all its childhood. It is patent that this option was deliberately chosen for a number of girls, and particularly for older girls. No doubt parents chose in terms of what was best for the family as well as what was best for the child. From the child's viewpoint, it was not unreasonable for parents to argue that inasmuch as in the past the predominant career for females had been in the home, for girls

training in the home was more important than any other training; though this view turned out to be misguided and unprogressive. From the point of view of the family, over against economic and educational considerations there were the considerations which arose from demographic change. With the Victorian home bursting at the seams with children, particularly those tiresome toddlers, the hard-pressed mother could be child-helped in two ways; first, by keeping the more responsible children at home to assist, and secondly by exporting from the home, and hence from minute-by-minute responsibility during many hours of the week, a proportion of the other children, either to work or to school. The child-minding function of both employment and schooling tended to be overlooked by highminded reformers, as it still is by high-minded historians.

The legislation to reduce child-labour and to promote schooling is the standard fare of history textbooks. But contrary to what is inferred in these, and generally by historians of education and childhood, constraints on child-labour existed before state intervention. Lack of jobs for children in specific industries and localities was one constraint (there were perhaps fewer child-jobs in the new industries than in the traditional ones); but another, probably a major one, was the will of parents, directing children to school or keeping them at home, for the reasons indicated. Quantitatively, the excluding legislation had limited effect, since relatively few children followed the occupations selected by the legislators, and only a small proportion of these numbers were excluded. For instance, the 5000 or so young children who were excluded from coalmining by the famous 1842 act cannot have been more than about 1 per cent of the total occupied child population (if we may judge by the 1851 figure) — though perhaps about 5 per cent of those aged 5 - 9 — or more than about 0.1 per cent of the total child population. The danger of writing the history of nineteenth-century childhood solely in terms of chimney-sweepers, trappers and coalminers, cotton-factory-piecers and such tiny minority groups — while ignoring the vast majority of children who were in agriculture, in trades, in less dramatic occupations in new industries, at school or at home — is obvious. The legislation that did have substantial quantitative effect was that compelling children to attend school, beginning in the 1870s. In stages over the next one hundred years the extension of compulsory schooling killed off all regular full-time labour for children.

Although quantitative evidence about mass voluntary schooling is limited to the nineteenth century, the extent of literacy at the end of the eighteenth century (documented in parish register signa-

tures, confirmed by the explosion of mass ephemeral publishing) suggests that long before 1850 British society was advancing towards acceptance of the desirability of general knowledge of the three Rs, at least for males. (Scottish historians would argue that this attitude was nothing new North of the Tweed). It is fair to doubt whether adequate skills with even the two Rs were normally acquired in dame schools or by light exposure to Sunday schools. But it is reasonably certain that, at least as early as the 1830s, a substantial part of the child population, in the countryside and perhaps even more in the industrial towns, was successfully acquiring the three Rs, that is, full literacy and the elements of arithmetic; and that this was being achieved by regular schooling at moderately well-run day or evening institutions, for periods of some two to three years, often during the age-span five to nine.²² Although these institutions were supplied by non-government (albeit establishment and middle-class) bodies such as the churches, the attendance of individual children was generally made possible by the economic support of their parents. Fees were in pennies but added up to some degree of sacrifice on the part of average parents. A minority of parents went further and supported selected children, perhaps selected by sex, birth-order, intelligence and motivation, for longer periods of schooling.

Compulsory schooling from the 1870s was therefore less of a discontinuity than has often been supposed, though it was certainly more than a mere topping-up of the previous voluntary system. Its novelty lay less in its getting a larger proportion of children to school than in its developing insistence that the objectives of schooling demanded standard years of attendance from each child, irrespective of ability, and a length of years much greater than previously common. This degree of regimented socialization was administratively convenient, perhaps essential; it fulfilled the state-interventionist beliefs of some reformers; and it provided a context for the equation of education with formal schooling. But it must also have improved the quality of the output of the schooling system, difficult though this is to measure objectively. The mere extension in the proportion of children regularly at school is often asserted to have effected, or at least influenced, political and social change, and this is plausible, though it has seldom been demonstrated convincingly in detail because those who have asserted this for the period after the 1870s have been unwilling to apply the same argument to the earlier period. One interesting conjecture is that schooling encouraged better personal hygiene and medical self-care, and therefore contributed to the fall in mortality in the home which affected parents, older children,

toddlers and – eventually – infants.

That the number of children at school has progressively increased over the last two hundred years is of course in the first instance a reflection of the increase in child population. The extent to which compulsory schooling steepened the previous rising trend is controversial, but twentieth-century legislation has certainly kept it rising, by extending the period of compulsory schooling (to age 13 in 1918, to age 14 in 1947, to age 15 in 1972).²³ It can be confidently stated that never in history had as many children under 16 been at school in Britain as there were in the 1970s. But because of the latter-day fall in the proportion of children in the population, and the uncertainty about the size of the school population in the middle quarters of the nineteenth century, we cannot be quite as confident that today's schools provide for a significantly larger share of the total population than ever before. However if we count not merely enrollment at school but regularity and length of attendance, then the total of school-years almost certainly increased throughout the nineteenth century and certainly has increased since, at a rate of increase exceeding that of the child population. In this sense, Britain is more schooled than ever before; and there has been constant extension throughout our period. (But the inevitable decline of school population during the 1980s may be yet another indication that the period is closing.)

Because schooling is now largely undertaken by the state, its overall cost can be calculated with fair ease – the capital cost of buildings and equipment, the recurrent cost of teachers and other employees – as can therefore the tax-cost to the individual average family. However the loss of labour and enterprise to the productive economy, not only of children but of adults, like the economic and educational value gained by training the next generation at school which (one hopes) out-balances the loss, cannot of course be easily or perhaps even sensibly quantified. In 1850 the cost of schooling was borne partly by voluntary bodies but largely by parents, and hardly at all by the state; and for this reason alone, estimates of the contemporary cost to the average family and to society of schooling are, like estimates of the economic value to family and society of child labour, difficult to make – and those attempted to date are not altogether convincing. But what has become clear by study of the problem of costing is that, though we cannot quantify the partly-countervailing elements in the cost of upbringing children to the point where we can lay down a clear period trend in cost to society and family, the factors involved are so complex, and the data so limited, that it would be arrogant to have other than an open mind on the degree of change in the extent to which society

and family have over-ridden immediate cost considerations when planning the socialization of children.

Quantitative analysis has disclosed certain trends in the history of British childhood since 1850 — broadly, increase in numbers, decline in mortality and average numbers of children per family, decline in child labour and increase in schooling. Certainly these trends do not cover all aspects of childhood, even perhaps all significant aspects. Nevertheless, any discussion involving British children in this period which ignores these trends does so at its peril. For instance, any history which discusses Victorian child-labour must surely consider them all, since (as shown) they inter-relate. However a common ploy of historians is not so much to ignore the quantitative evidence as to set over against it warmly-documented individual instances which are said to indicate, in controversion of the arid statistics, the true 'quality of life' at the time. What those who argue in these terms perhaps fail to appreciate is that quantitative analysis, like other forms of evidential analysis, cannot produce knock-down conclusions on a subject as elusive as the quality of life, and therefore cannot be controverted. What our quantitative analysis does do, however, is to raise questions which throw doubt on whether there is much substance in the concept of 'quality of life'. Suppose, for instance, that because toddler mortality falls, a number of late-Victorian children who would have otherwise died before the age of five live on to die of tuberculosis in their teens. What possible conclusion can we reach about changing quality of life, either for the children or their parents? How confident can we be that the quality of life for an individual has improved because he went to school from 10 to 14 instead of to work? Does a child benefit by not meeting death in the family? By knowing more grandparents? By having a bed to himself — in a family to himself? Who can assess the quality of life as between the teenagers of 1850 facing the prospect of a sickly adult life in a smoke-polluted environment and those of 1980 facing the prospect of either long healthy years or instant nuclear holocaust? Each age has a quality of life, no doubt, but each to each is not only largely incomparable but largely incomprehensible.

Throughout this essay doubts have been raised about familiar preconceptions, sometimes a shade sharply, because childhood being a sentimental subject the history of childhood can easily turn into a sentimental chronicle of progress, hence a smug glorification of the present. But to gain comfort in the present by knocking the past betrays both the pursuit of truth and our own human forebears. To be fair to the past is the best guarantee that we will be fair

to the future. If history exists to warn us to be as critical about the present as about the past, quantitative analysis' special contribution to history is to advise us to form muted judgements on both. For statistical evidence has this advantage over literary evidence — the limits and limitations of data are more self-evident.

Notes

¹ The period is largely covered in two works of quantitative historical survey: D. C. Marsh, *The changing social structure of England and Wales 1871-1961*, 1965; A. H. Halsey, ed., *Trends in British society since 1900*, 1972. Unfortunately neither work deals separately or at all fully with children. Both works supply exact references for statistical data and Halsey in particular is well-provided with lists of official sources: both are therefore cited below, to save multiplying official references. A work not henceforth cited is I. Pinchbeck and M. Hewitt, *Children in English society, II, From the eighteenth century to the Children's Act*, 1973, which is grossly mistitled, since it deals almost exclusively with minorities of especially deprived children and with social welfare legislation. Further, its understanding of the past is severely limited by its ubiquitous tone of maiden-auntly shock.

² In this section of the essay an attempt is made to present figures for Britain, but the 'tedious separatism of Scottish statistics' causes a lapse back in later sections to (mainly) statistics of England and Wales only. For the demographic experience of Scotland, though this is poorly documented before the 1850s, see the excellent survey and guide by M. Flinn et al., *Scottish Population History from the Seventeenth Century to the 1930s*, 1977.

³ Numbers of children since 1851 can be traced through the censuses but are more conveniently found in B. R. Mitchell, *Abstract of British Historical Statistics*, 1962, Table 4, and B. R. Mitchell and H. G. Jones, *Second Abstract of British Historical Statistics*, 1971, Table 3. Also there are handy summary tables in March, op. cit., p. 24, repeated and extended in Halsey, op. cit., p. 33.

⁴ For details of printed nineteenth-century census reports, see M. Drake, 'The census 1801-1891', in E. A. Wrigley, ed., *Nineteenth Century Society: Essays in the Use of Quantitative Methods for the Study of Social Data*, 1972.

⁵ For a very striking graphic presentation of child mortality trends, see Figure 5.3 in E. A. Wrigley, *Population and History*, 1969, p. 166: this is mainly based on *Registrar General's Statistical Review for 1962*, part I, p. 6, table 4. See also Halsey, op. cit., pp. 336-338, Tables 11.2 and 11.3, based on official sources which are cited. Infant mortality rates from 1838 and 1855 and child mortality rates from 1938 are tabulated in Mitchell, *Abstract and Second abstract*, Table 12 and Tables 10-11.

⁶ After 1950 infant mortality continued to fall and by the 1970s was around 17.

⁷ For instance, social class I in 1930-32 had a rate of 33 (infant deaths per 1000 births), higher than the rate of 21 achieved by classes IV-V in

1964-1965: Halsey, op. cit., p. 343, Table 11.9.

⁸ But for genuine high infant (and child) mortality in Glasgow before 1850, see Flinn, op. cit., pp. 378-379.

⁹ See R. E. Jones, 'Further evidence on the decline in infant mortality in pre-industrial England: North Shropshire 1561-1810', *Population Studies*, 34, 1980, pp. 239-250; and other recent studies cited and summarized in this article.

¹⁰ The unprinted source behind the printed census return, the enumerator's book, is now being widely and intensively studied for information on the family: see M. Anderson, 'The study of family structure', in Wrigley, *Nineteenth Century Society*; and a pioneering investigation of Preston in 1851, M. Anderson, *Family Structure in Nineteenth Century Lancashire*, 1971. At Preston about 90 per cent of children were living with parents, though in a sample from near-by villages only about 80 per cent (pp. 54, 85).

¹¹ For tables summarizing census data on proportions of children, see Marsh, op. cit., p. 25, repeated and extended in Halsey, op. cit., p. 33. In 1971 the proportion was slightly higher than that stated for 1931-1961.

¹² The best discussion of changing family size, with illuminating tables, is in Wrigley, *Population and History*, pp. 185-191. See also Marsh, op. cit., pp. 41-47, and Halsey, op. cit., pp. 28-29, 54-57. All tend to be based on the 1911 census fertility inquiry, the 1946 family census (*Royal Commission on Population*, vol. VI, 1954), and the fertility tables of the 1961 census report.

¹³ On orphans and step-parenthood, see P. Laslett, *Family Life and Illicit Love in Earlier Generations*, 1977, 'Parental deprivation in the past', pp. 160-173; J. R. Holman, 'Orphans in pre-industrial towns — the case of Bristol in the late seventeenth century', *Local Population Studies*, 15, 1975, pp. 40-44.

¹⁴ Anderson, *Family Structure*, pp. 74, 141-144.

¹⁵ For the view that early censuses may overstate the number of occupied children (because of faulty recording by enumerators), see P. M. Tillott, 'Sources of inaccuracy in the 1851 and 1861 censuses', in Wrigley, *Nineteenth Century Society*, specifically p. 124.

¹⁶ The material in this paragraph is from an unpublished doctoral thesis, P. E. H. Hair, 'The social history of British coalminers 1800-1845', Oxford, 1955.

¹⁷ The early censuses did in fact require householders and enumerators to record the occupations, not only of children who worked away from the home, but also of those who worked on other than domestic duties at home. However it may be doubted whether all children occupied at home were so recorded, partly because of the lack of instructions regarding what constituted 'occupation'. Given that numbers of children worked spasmodically in domestic industries, that this might be regarded as not occupied because not full-time or regular, and that the census did not inquire into part-time working, it would seem likely that whereas part-timers who worked away from home tended to be recorded as 'occupied', those who helped in occupations at home tended to be not so recorded. But

this view may be wrong. The extent to which 'occupied' included or excluded part-timers requires further investigation but for lack of evidence may never become clear. This is one of many grey areas in the quantitative assessment of nineteenth-century child-labour, and nothing in the text of this essay should be read as indicating confidence in the capacity of the published data to establish other than the broadest trends.

¹⁸ The argument of this section is in keeping with the approach presented in T. W. Laqueur, 'Growth of English elementary education 1750-1850', in L. Stone, ed., *Schooling and Society*, Baltimore, 1976.

¹⁹ According to the Robbins Report, cited in Marsh, op. cit., p. 218, the proportion of children aged 14 in full-time schooling rose from 2 per cent in 1870 and 9 per cent in 1902 to 38 per cent in 1938.

²⁰ There is advantage in concentrating the argument on these early census figures, since the census treated 'occupied' and 'schooled' as mutually exclusive categories. Later on, census figures for children at work and Education Department figures for children at school overlap, because of educational part-timers, that is, children both at work and at school. The essay indicates the broad trend and avoids this statistical complication. However it may be noted that among those enumerated in the early censuses as occupied there must have been some who had previously been at school, therefore the proportion of schooled under-estimates the proportion of ever-schooled.

²¹ For a discussion of schooling statistics, see B. I. Coleman, 'Education in mid-century', in Wrigley, *Nineteenth Century Society*; and see also, in the same volume, Tillott, op. cit., pp. 122-124. The school surveys of 1818, 1833, and 1851 are less informative about child attendance by ages than are the census returns. The 1851 census instructed householders to record as 'scholars' those children above five 'daily attending school' — but this essay assumes that this instruction was not rigidly adhered to. The census distinguished a small number of children who were receiving tuition, not at school but at home: this category has been ignored. The census also recorded a number of children under five as 'schooled' (12 per cent of the age-group in 1851, a high figure). Again, our discussion ignores these children. Though of much interest in the history of nursery schooling, we cannot believe that schooling for toddlers meant the same as schooling for older children.

²² On the quantitative aspects of schooling before the 1870s, see the controversial articles (usefully reprinted in M. Drake, *Applied Historical Studies*, 1973, pp. 53-119), E. G. West, 'Resource allocation and growth in early nineteenth century education', *Economic History Review*, 2nd. ser., XXIII, 1970, pp. 66-95; J. S. Hurt, 'Professor West on early nineteenth century education', *ibid.*, XXIV, 1971, pp. 624-632; E. G. West, 'The interpretation of early nineteenth century education statistics', *ibid.*, pp. 633-642.

²³ Usually expressed as leaving-ages of 14, 15 and 16, meaning that children could leave school at some convenient administrative date after these birthdays.

Further reading

E. A. Wrigley, *Population and History*, Weidenfeld and Nicolson, 1969. Disguised as an elementary introduction to historical demography, this book includes an original discussion of nineteenth- and twentieth-century changes in mortality and fertility across industrial western Europe (chapter 5). Child mortality and family size in Britain since 1850 are depicted in neat and bold diagrams and tables. The best starting-point for novices.

Rosalind Mitchison, *British Population Change Since 1860*, Macmillan, 1977. Up-to-date bibliography and useful background reading. The brief text is particularly good on methodological problems, but rather harps on the wrongs of women and has too little to say about family size and the social issues most relevant to childhood.

Ivy Pinchbeck and Margaret Hewitt, *Children in English society, Vol. II, From the Nineteenth Century to the Children's Act*, Routledge and Kegan Paul, 1973. Not about 'children in society' on any broad view but about the development of reformist and *dirigiste* 'child welfare' attitudes and legislation: see my footnote 1. On its narrow topics, the book is authoritative if blinkered.

J. S. Hurt, *Elementary Schooling and the Working Classes 1860-1918*, Routledge and Kegan Paul, 1979. This work, a sound and penetrating discussion of the social issues surrounding the imposition of universal schooling, sometimes expressed quantitatively, indicates how far the 'history of education' is now broadening out from a simple, institutional, linear-progressive model. Hurt concludes that 'almost one century after Forster's Bill had become law, some parents still acquiesced in rather than accepted the legal requirements that had changed the pattern of family life that dated back to a pre-industrial society'. Though unfortunately not available to me when the present essay was being drafted, the book is recommended as the best starting-point for reading on the schooling aspect of childhood.

Pamela Horn, *The Victorian Country Child*, Roundwood Press, 1974, and *Education in Rural England 1800-1914*, Gill and Macmillan 1978. In these books, and in a number of less easily accessible articles, the author draws attention to the life of the rural child. The writings excel in pointing to the range of published and unpublished sources but sadly the historical approach is in the outdated fashion of the Hammonds. Select quotations are deployed to prove the Bad Old Days and quantified assessment is limited.

E. A. Wrigley, ed., *Nineteenth Century Society: Essays in the use of Quantitative Methods for the Study of Social Data*, Cambridge University Press, 1972. The essential introduction to quantitative census data for the critical student or the researcher. Although there is no separate essay on childhood, the essays by Drake, Anderson, Tillott and Coleman are very relevant. The work serves to demonstrate to what a limited extent the received generalizations about the social history of the period have been constructed from, or have been checked against, even *published* quantitative data.

Michael Anderson, *Family Structure in Nineteenth Century Lancashire*, Cambridge University Press, 1971. Actually about Preston in 1851, this his-

torical analysis draws its evidence from unpublished census data (enumerators' books) and is pioneering. A little overburdened with sociological chatter but the questions raised touch on most aspects of family life, including childhood. This work points the way forward. Yet it deals with only one town in one census — it therefore warns us how much similar analysis remains to be done before we can confidently gain a rounded view of the late nineteenth-century family.

Peter H. Lindert, *Fertility and Scarcity in America* Princeton University Press 1978. The most recent, elaborate, and sensible attempt to cost post-1850 Anglo-Saxon children. Mainly treating the USA, it successfully proves the range of data — and the range of assumptions — the exercise demands. It is therefore useful for reminding historians about important questions concerning past British childhood (e.g., was there a relationship between late nineteenth century family size and child earnings?) that apparently are now unanswerable.

Carol Dyhouse, 'Working class mothers and infant mortality in England 1895-1914', *Journal of Social History*, 12, 1978. This stimulating article offers useful comment and bibliography on the infant welfare movement; and it exposes the anti-female, anti-working-class bias of contemporaries who blamed high infant mortality on maternal ignorance and mothers going out to work. Only a faint whiff of the voguish opposite bias surfaces in this article. Nevertheless critical readers may not be entirely convinced that the myths assaulted were totally without foundation in fact.

William Brass and Mohammed Kabir, 'Regional variations in fertility and child mortality during the demographic transition in England and Wales', in John Hobcraft and Philip Rees, *Regional Demographic Development*, Croom Helm, 1979. Distinguished demographers conclude from a highly technical discussion that 'a direct influence of child mortality on fertility cannot be detected' by analysis by regions. Mortality fell unevenly, fertility evenly. Presumably whereas the former was determined by local socio-economic circumstances, the latter was determined by more widespread social attitudes. Where do we go from here?

Postscript While the present volume was at press, E. A. Wrigley and R. S. Schofield's *The population history of England 1541-1871* Edward Arnold 1981 appeared (but has not yet been subject to critical review). Readers who may wish to check my speculations about pre-1850 child population against the suggestions of Wrigley and Schofield are directed to the following passages. Their back projection exercise suggests that the proportion of children in the population was fairly steady during the early nineteenth century but grew throughout the eighteenth century, Gregory King's age-distribution figures being wrong (pp. 216-218). Reconstitution studies of 12 non-random parishes suggest that child mortality rates were lower 1750-1800 than they were 1700-1750 (p. 249); and the figures given would mean that toddler mortality began an overall decline long before 1850 but that infant mortality rose somewhat during the early nineteenth century, with the result that child mortality in 1800 and child mortality in 1850 were much the same.

8410
0440
U.K.

02-11

Regional and temporal variations in the structure of the British household since 1851

RICHARD WALL

It is often asserted that large and complex households occurred more frequently in past societies than present ones: that now people live in nuclear families or alone whereas previously they would have joined the households of others as parents, brothers, sisters or more distant relatives. In practice, as will be demonstrated later, the inclusion of such relatives in the household was as common in Britain in 1951 or even 1961 as it had been in mid-nineteenth-century Britain. Merely to note the proportion of households with relatives would, however, not be enough. It is necessary to establish in which sort of households relatives were located. Accordingly, the analysis has been extended to cover the significant variation in the composition of the household by social class and by region. The latter aspect has been much neglected although as is shown by an examination of the 1971 census the regional pattern is a striking one with a higher proportion of households containing relatives in the west of the country than in the east. In this paper, therefore, particular attention will be focused on this pattern, noting its relative durability and the possibility of associations with the economic and social characteristics of individual regions.

Concepts and definitions: the household of the enumerator and the enumerated

An overwhelming proportion of the present-day population of Britain lives in households and the importance of the household as a social and housing unit is widely recognized. The General Household Survey of the Social Survey Division of the Office of Population Censuses and Surveys (OPCS) and the Family Expenditure Survey of the Department of Employment (GHS and FES)

now supplement the decennial census with an annual breakdown of household composition. Nevertheless the shape and composition of the contemporary household are still shrouded in obscurity. There are many reasons for this. Both the FES and the GHS are surveys and depend on voluntary co-operation. There is in consequence a certain, and variable, non-response rate. The GHS with a higher success rate than the FES still achieve only 76 per cent complete returns in 1976 and a further 10 per cent of partial returns. If the non-responders could be assumed to be typical of the general population this would not matter but this seems unlikely. A report of 1969 showed that the response rate to the FES declined as rateable value increased. It was also found that small households were the least likely to co-operate although as outright refusals appear to have been accorded a household size of one (representing the person refusing) there seems to be room for a certain amount of conjecture regarding the degree of bias that enters the surveys from this source.

It is not altogether surprising, therefore, that researchers have tended to turn first to the decennial census rather than to the surveys. Information on household composition was first collected in 1851 for a handful of far from representative districts but the experiment was not a success, and after 1861 interest appears to have lapsed until 1951 when a special set of tables was introduced apparently in response to expressed requests by sociologists. Further sets of tables appeared in 1961, 1966 and 1971. The difficulty with them is that it has been found impossible to keep either definitions or the level of detail constant, as on each occasion an attempt has been made to avoid the mistaken approaches of the previous census. It also has to be said that the various classification schemes that have been tried have tended to obscure rather than illuminate the structures they were trying to describe. In 1951 the Registrar General favoured a system in which the household was divided into a primary family unit and an optional 'remainder' section. The former consisted of the head, and where present, spouse, child (including siblings, children of servants and parentless children), near relatives (including siblings aged 16 and over unless married, or widowed with children of their own, and ancestors whether married or not) and domestic servants. The 'remainders' absorbed all other household members and were analyzed according to whether they contained family nuclei of their own (i.e. at least one married couple or parent-child group). Households could consist of a primary family unit only or be 'composite', that is, contain a primary family unit and a 'remainder'. The system was not repeated but it cannot be said that later

attempts have been much more successful at providing a neat, clearly understood categorization of types of household and this despite the fact that the majority of present-day households are exceedingly simple in structure. In the 1971 volume, there were as many as 52 separate categories of household making compression inevitable if the result is not to be a hopelessly confused picture.

On the other hand it is all too often the case that compression removes vital pieces of information. The categorization schemes employed by the FES and GHS, for example, have the advantage of greater brevity but see the household from one point of view only. One of the FES schemes, for example, in the code book to the 1973 survey, runs to 28 types based only on combinations of adults and children, with child defined as any unmarried person under the age of 18 rather than in terms of relationship to the head of household as in the case with the decennial census. More widely used is the scheme adopted by the GHS of individuals under 60, small adult, small family, large family, large adult, older small, and individual aged 60 and over. However although it provides a neat enough portrayal of households at particular stages of their developmental cycle from formation to dissolution, like the FES scheme it does not attempt to show the relationships between co-residents. It does not therefore succeed in throwing much light on why people choose to live together. For this purpose it is necessary to fall back on the decennial census and promote one's own rearrangement of the 52 household types. Inevitably this involves focusing on one particular aspect of the household to the exclusion of others as in the present paper where the focus is on the presence in the household of relatives of the household head.

The focus on relatives could, though, be attacked on two counts. First, it is generally accepted that the 'extended family' as a co-residential group, has been virtually eliminated from present-day Britain and involved no more than a minority of households even in the nineteenth century. However, although relatives form only a small part of the household it has already been intimated that there is a significant variation in the frequency with which households contain relatives both in terms of social class and by region. The argument is that this reflects different attitudes towards the wider family. The second and more difficult problem arises from the failure of the census to provide a complete and consistent count of households with relatives. Even the 1971 census which is the best suited to our purpose is not entirely satisfactory in this respect. Grandchildren living with their grandparents in the absence of the intervening generation are treated in all tabulations as though they were offspring. There is also a minor

loss amongst the more complex households (consisting of two or more married couples or parent-child groups) where it is impossible to ascertain how many of these involve a relationship other than that of direct descent.

With the earlier censuses the problems are greater. In the case of 1961 it is impossible to identify households with lone ancestors if persons unrelated to the household head were also present. A lone ancestor, it should be noted, is the census term for the resident ancestor of the head or one of his or her direct descendants not belonging to a family in their own right. Also in the 1961 volume we find a distinctly chilly warning in regard to comparisons between 1951 and 1961. 'Undoubtedly', says the report on household composition, 'a limited number of the figures can be regarded as approximately comparable if reasonable assumptions are made about the smallness of certain marginal groups of persons who might be included in one tabulation but not another. The purpose of these paragraphs is to stress that any such comparisons should only be made with caution after careful study of the definitions used in each method of classification'. From our point of view the important differences between 1951 and 1961 are first that in the former year only those persons resident *and present* on census night were included and secondly that the definition of child embraced widowed and divorced children of the head unaccompanied by children of their own who in later censuses were classed as relatives (widowed or divorced children of the head with children of their own are always taken to be relatives). On the other hand a number of siblings of the head (those under the age of 16) were included amongst the count of children in 1951 and as relatives in 1961 and later. Such changes in definitions affect our count of the proportion of households with relatives in a number of different ways. Sometimes they tend to be self-cancelling, sometimes the effect is difficult to predict as with the change from a *de facto* to a *de jure* style census between 1951 and 1961. Since visitors are excluded from consideration on both occasions the result inflated the number of relatives recorded in 1951, other factors being equal, but can one be sure that all chance relatives in the household in 1951 were dutifully recorded as visitors?

It is necessary to introduce such detailed points because they determine the level of confidence that can be accorded to the calculation of the proportion of households with relatives for each of the census years. The lack of consistency in the definition of relatives is of less importance when we wish to determine whether it is always the same areas of the country which are associated with 'high' or 'low' proportions of households with relatives. The only

assumption made here in comparing one census with another is that the change in definition from census to census has not cut out a particular household type common to one part of the country but not to another. Analysis of a sample of the 1851 enumerators' schedules suggests that there may indeed have been at that stage some rather subtle variations in the composition of the kin group from region to region but it seems unlikely that many of the various types of relatives might have been missed had the rules of later censuses for observing such households been applied.

Attention is directed to 1851 in particular as it is with this year that assessment of regional variation in household structures becomes practical (earlier materials occurring too sporadically across time and space for this purpose). It provides a point of comparison for both the degree and direction of the regional variation a century later. However, the sample 1851 schedules have yet to be fully processed, and for information on the *proportion* of households with relatives it is necessary to rely on the figures published in the 1851 and 1861 Reports. These figures, it must be remembered, relate to a far from representative selection of settlements. They contain in particular a too large urban element, with sections of the country omitted, areas from Wales appearing only in 1861 and Scottish ones never, but the figures can be compared for general consistency with extensive, if somewhat disorganized, work based on the 1851 enumerators' schedules undertaken more recently (summarized in Wall, 1979).

Before we start to look in detail at the pattern of household composition, the level of census accuracy ought to be examined from a wider perspective. So far we have considered only the question of the detailed classifications of households and not the problems of under-enumeration. The latter is of particular concern when the information on households is obtained from a sample and not the complete population (1951, 1 per cent, 1961-71, 10 per cent) and when the drawing of the sample was in the hands of the enumerator and not the census office (as in 1961). Along with the *Guide to Census Reports Great Britain 1801-1966* (1977, p. 274) we do not expect perfection in any census but 'follow up' surveys and comparisons between the results of sample and general censuses where these cover the same ground demonstrate that the level of inaccuracy, particularly as regards household composition, can be surprisingly high. For example, for 1961 it is estimated that the number of one-person households was under-stated by between 8 and 9 per cent. The important point is that it is particular *types* of household that are likely to go under-recorded.

The *Guide to the Census Reports*, having spent some time trying to

discover the reasons for this, eventually decided that the chief cause lay with enumerators who had departed from the strict sampling system by avoiding households that were going to be 'difficult' or 'unusual' either because they were large, or contained immigrants or the elderly, who would experience problems with the more complicated form used in the sample. Since the enumerators in rural areas were more likely to be aware of the nature of an individual household before calling on it than their urban counterparts, this 'explained why the discrepancy was greatest in rural areas'.

Another type of problem arises because of the failure of the staff at census headquarters, the enumerator and the householder filling in the schedule, to agree on the definition of household. This is by no means a simple matter in that it is possible to think of the household in terms of the physical space it occupies, its function and its social meaning and emphasizing one of these at the expense of another can alter the number of units that are identified as households. For example a group of persons may occupy a defined living space but not pool their incomes or adopt a common housekeeping. They will certainly not always acknowledge a common authority in the form of a 'household head', the appearance of whom on census forms as a reference point from which to calculate relationships within the household has on occasion sparked off the destruction of the questionnaire. Such problems as these are of course very well known and great efforts have been made to keep to a standard definition of common housekeeping. However, if the rules regarding co-residence change, for example if more people start living together but catering separately, as can be the case with friends sharing flats, then the definition of household may have to change. Indeed the Office of Population Censuses and Surveys has considered, but not yet implemented, a redefinition of the household on the basis of the use of a communal living room.

The various surveys to which we have referred, the FES and GHS also get into difficulties with definitions. On the other hand they have one advantage over the decennial census in that as they keep track of the same household over a period of months quite elaborate rules can be formulated to determine whether an individual qualifies for membership of a particular household. These rules take into consideration how many nights the individual resided in the household, in conjunction with his marital status and the closeness of his relationship to the household head. At the same time the question of household definition can be handled in an almost cavalier way in the commentaries on the results of the surveys. Thus the FES defines a household as a group of people

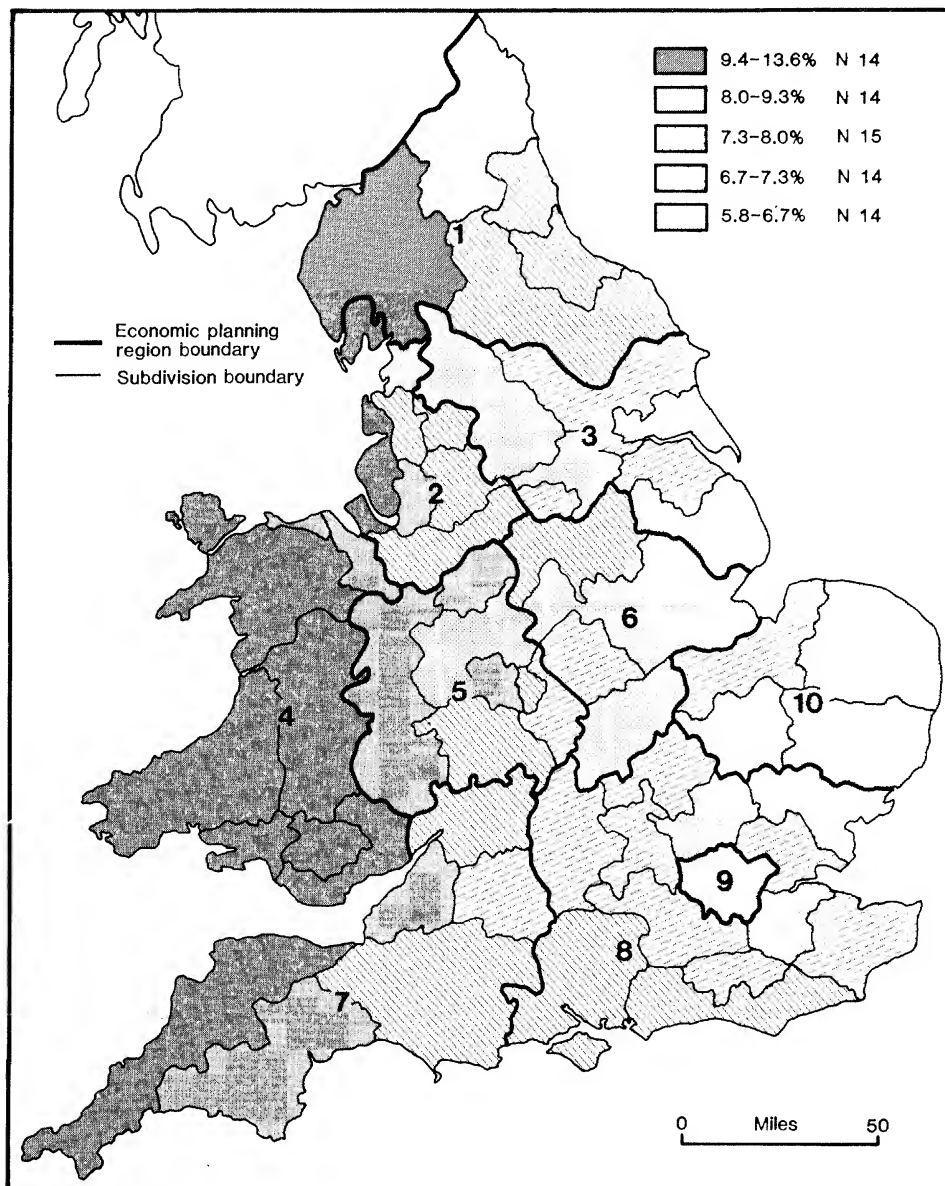
living at the same address and having meals prepared together and with common housekeeping, while the GHS prefers a group living at the same address and *catered for by the same person for at least one meal a day*. This leaves the reader to wonder whether a real difference is intended or whether it is simply the case of trying to avoid too much detail which can make for a long and involved text. The different objectives of the surveys, particularly in the case of the FES with its emphasis on income and expenditure seems likely to give rise to further discrepancies in the identification of households.

The principal problem in this area, however, arises from the presence of lodgers (the subletting of part of a family's living space to other families, or more usually to individuals, who provide their own food). This was recognized as long ago as the 1831 *Population Return*. Indeed a housing report that appeared after the end of the Second World War (Block, *Estimating Housing Needs*, 1946, p. 30), concluded that its definition of a household had not been improved upon, and that the various difficulties which it occasioned were still unsolved. The same could doubtless be said today. Part of the problem undoubtedly arises from the fact that although the census authorities have tried to count lodgers as separate households, at least since 1831, neither the enumerators nor the householders who fill out the schedules have been able to visualize them as such, with the consequence that lodgers have to varying degrees been credited to the principal households who provide them with house room. As residential units have gradually acquired more living space with the general advance in the standard of living, it seems reasonable to hypothesize that it should be rather easier to agree on lodgers as 'separate' today than was the case in the past. Even so, it was reported to a conference in Cambridge in November 1977 by a spokesman for OPCS that a special survey of students in lodgings had shown that the 36 recorded households should really have been 98 representing about a 1 per cent undercount of existing households.

For earlier periods it is difficult to get a precise estimate of the number of 'lodgers' and others that might have constituted distinct households. Block in *Estimating Housing Needs* (p. 77) calculated 3,445,000 potential candidates for one-person households in 1931 against the recorded total of 689,000 but he makes it clear that the difference was only in part to be accounted for by under-enumeration of households. The remainder were genuinely attached to other households although, according to Block, they would have liked separate dwellings. The relative weights to be accorded these two factors could not be determined. This comment apart, it

appears we have to go right back to the two special analyses of household composition in the Reports on the censuses of 1851 and 1861. At this time lodging was apparently exceedingly common (although the bias in favour of urban areas is a factor here) and if we were to follow the advice of the 1851 Report that 'many of the "single lodgers" and "widowers" or "widows" are occupiers of parts of houses' and should be classified as householders it would be necessary to add 20,378 extra households to the recorded total of 48,985. When Alan Armstrong resurveyed these data in the early 1970s he therefore provided two sets of figures, one including all the sole widowed, bachelors and spinsters and even married couples as the equivalent of households and the other excluding them all (i.e. classing them as lodgers).

To this sort of problem there is no 'right' solution, but lodgers clearly do not constitute full households even though they cater separately. Their living space is generally more circumscribed and more often shared with other people than is the case of those recorded households who have to share facilities with other households. There is a similar logic to the 1961 redefinition of the household which resulted in those residential units not having exclusive use of at least one room no longer counting as households. Where the option exists, therefore, we would probably be justified in trying to classify a lodger or 'lodging group' without a distinct living space as an attachment to a household rather than as a separate household. Even when all that is available are the numbers of households and lodgers we might still for the mid-nineteenth century want to attach them to existing households. This after all is how the enumerators of the time seem to have seen them and it also squares with current interpretations of pre-industrial English household structure. It is important, however, that the implications of such an argument are fully realized. In effect we should be overlooking groups in the nineteenth century whose equivalents in the twentieth century are more readily accredited with the title of 'household'. There are also implications for the estimate of the proportion of households with relatives because the structure of lodging groups is very much simpler than that of households. Not to count lodgers as forming households 'raises' the proportion of households with relatives in the average (median) settlement in the special analysis of 1851 from 13.4 to 20.2 per cent, which set alongside our best estimate for the country as a whole a century later implies a quite considerable fall in the frequency of living with relatives by 1951 (the median was then 15.0 per cent, see figure 5). However, had we taken the 'official' advice proffered in the 1851 Report and equated lodgers with



Figures 1(a) and (b) Great Britain 1971. Proportion of households with relatives in subdivisions of economic planning regions (definitions of 1971).

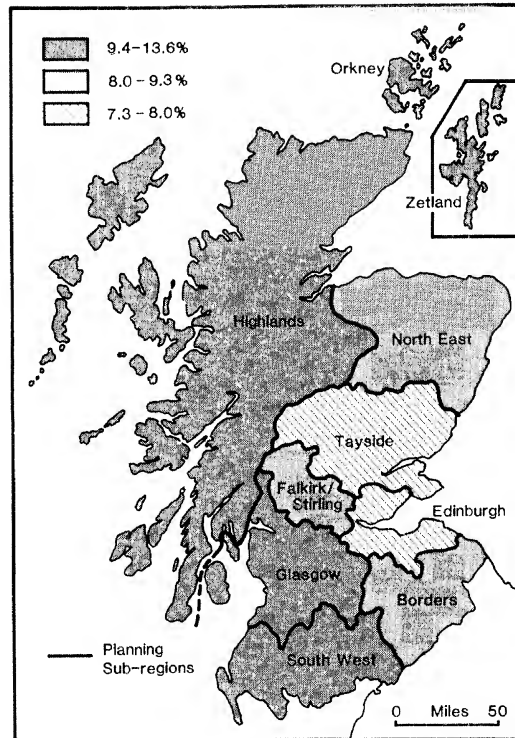


Figure 1(b)

households then we could produce an 1851 figure that was below that of 1951 and very little removed from that of 1961 (the median for the areas into which the country was divided for the purposes of figure 2 is 12.8).

Round the regions

For the moment let us put this issue to one side, and consider the question that, as intimated above, should be considerably easier to elucidate, the degree of regional variation in this aspect of household structure. Figure 1 makes it very clear that in 1971 households with relatives were concentrated into particular parts of the country. The regional variation is the more striking because of the crudeness of the figures which are available for no units smaller than sub-divisions of economic planning regions. For the purposes of figure 1, these regions have been divided into five arbitrary groups, each containing about 20 per cent of the areas, according

to the rank order of the proportion of households with relatives.

These groups can be termed respectively the areas of relatively high extension, medium high, medium, medium low and low and the pattern produced is one of high areas to the west and low areas to the east. From a high in western Scotland, Wales, the south west and the north west the proportion of households containing relatives declines almost inexorably as one moves eastwards and is least noticeable in Yorkshire, the east Midlands and East Anglia. There are a few exceptions: the Greater London and Birmingham areas, for example, and it will be noted that the proportions for Scotland are in general above those for England. The overall trend, however, is very clear, although since the gradations in the proportions are very slight involving, even in the west, only a small minority of households, it is not a characteristic that would strike a newcomer to a particular area. It is perhaps for this reason that it has previously escaped attention.

In the search for an explanation both the age structure and the economic and social structure of the various regions must be kept in mind. I have demonstrated in a recent paper how the presence of what are termed 'no family' households, that is households lacking either a married couple or a parent-child group, are associated with areas in which there are at the same time a high proportion of elderly persons. This particular explanation, however, is less plausible in the case of households with relatives. In the first place, while several of the classic retirement areas with their large proportions of elderly persons do seem to be favourable to this sort of household, other such areas, particularly in the south east, do not. In the latter one finds a relatively high proportion of old people, a relatively high proportion of whom live alone or with just a spouse, whereas in Wales and the west there are similar proportions of the elderly, but comparatively few of them living alone. The second reason for thinking that age structure is not the key factor is that it is possible to replicate the regional pattern almost exactly, using a quite different sub-set of households: one family households containing children. This removes from consideration those households most likely to reflect the preponderance of old people (no family households). A child is defined by the Office of Population Censuses and Surveys not in terms of age but in terms of relationship to the household head, including some grandchildren in addition to never married sons and daughters (see above). Relatives are certainly rarer in households which contained children than they were in households in general. This one might well expect given that such households contained by definition a parent-child group and might well lack the resources to lodge an

extra relative. It could also be argued that the heads of such households were at a particular phase of the life cycle when they might expect to have fewer relatives alive (parents at any rate) with whom they might co-reside. It is particularly interesting, therefore, that the same sort of *regional* pattern emerges from this set of figures as from the other. (The second set of figures is not reproduced here but has appeared in map form covering England and Wales only in my article 'The historian and data tapes', *Social History Society Newsletter* 3(1) Spring 1978.) At the same time it has to be admitted that the attempt to control for the effect of age structural variation is only partially successful. This is principally, though not entirely, because child is not defined in terms of age, and it is to be hoped that future censuses will provide fuller and more direct data to enable one, for example, to measure the presence of relatives by the age of household head.

Similar difficulties surround the possible links between the proportion of households with relatives and the economic and social structure of the particular area. At first sight such links seem unlikely. One does not have to be particularly familiar with Wales to know that central Wales and the north Wales coast differ from each other and from the south Wales valleys yet all end up with approximately similar proportions of households with relatives. Similarly, although a number of conurbations stand out as having above average proportions of these households, Merseyside, Birmingham and London for example, suggesting that housing costs, or the lack of suitable housing, causes families to 'huddle up', it is equally possible to point to other conurbations such as Tyneside and west Yorkshire where this is not the case.

Uncertainty arises because there is no information on the social class of the households *within each area* that contain relatives. Nationally it is known that these households are most common amongst the unskilled (social class V) and decrease in proportion as one ascends the social hierarchy. This, it is worth emphasizing, completely reverses the hierarchy of pre-industrial times when the most complex households in terms of kin composition were almost invariably commoner amongst the wealthier groups. Whether this hierarchy persisted in some of the regions that might be regarded as rather more traditional in outlook is as yet unknown.

Social classes are not, of course, homogeneous entities. The term as used here is an OPCS construction from a combination of some 17 socio-economic classes (see the list in table 3 p. 96, and, to avoid possible confusion between the social classes and socio-economic classes, in this paper the latter will be referred to as groups and not as classes). The 17 socio-economic groups are in

turn based on what are necessarily sometimes rather fine judgements, again by OPCS, about employment status and the standing of particular occupations. Not surprisingly the groups and their principal sub-divisions (no finer breakdown is available) suggests a more complex picture than the five class division introduced above. Where a particular socio-economic group, such as employers with small establishments, spans a series of classes, the general class hierarchy (the lower the social class the more households with relatives) was sometimes broken. For example, employers placed in social classes II and III were rather more likely to live with relatives than were those accorded only the status of semi-skilled and unskilled (classes IV and V) although the reverse was generally the case. The absolute level is also higher than the average for households in class II (9.1 per cent against 7.8 per cent).

Other examples could be found suggesting that socio-economic group rather than social class provides the surer guide although it might be necessary to modify this if data at the level of the occupational group were to hand. It is also true that certain of the socio-economic categories are, from the present point of view, distinctly unhelpful. There can be no surprise, for example, that farmers on their own account, using no labour other than family labour, are more likely to have relatives living with them than other farmers; indeed the farmers using familial labour head the list of groups most likely to have relatives present. Similarly the mobility of members of the armed forces, and the mobility and perhaps the poverty of students provide natural constraints to their taking in relatives. Together with the economically inactive they were the three groups least likely to do so. Other differences cause far more consideration. Professional people are below average in the proportion of households with relatives. So, too, are agricultural workers, particularly in relation to other socio-economic groups deemed by OPCS to be of the same social class, and the factors that might be appropriate in the case of professionals seem scarcely likely to fit agricultural workers. The conventional interpretation would see the low frequency with which professionals live with their relatives as a natural consequence of their own mobility, and symptomatic of the severance of kin ties that social and geographical mobility induces, though the case for the dislocation of kin ties as a result of social advancement has sometimes been overstated. The household patterns of agricultural workers are even more difficult to interpret than those of the professionals. In contrast to the professionals, they have been little studied in recent years as they have shrunk to a fraction of their

former importance in the national economy. All that can be said is that it seems unlikely that mobility is the factor behind the low proportion of agricultural workers' households with relatives. Alternatively it might be argued that the ready availability of suitable housing made co-residence less necessary (see below) but a possible superfluity of housing for poorly paid workers in East Anglia scarcely seems likely.

Such speculation tends to be endless and much of the relevant information is in any case simply not available. This applies equally to the question of the relationship between the socio-economic variation and the east-west differences which were such a marked feature of the map of household composition in 1971 (figure 1). As with social class there is no direct evidence on the variation in household composition by socio-economic group within regions and the only recourse is to fall back on indirect evidence. For example, Wales has an above average proportion of farmers not employing outside labour as does the south west. On the other hand in East Anglia, which also has an above average proportion of farmers, the balance between those using non-familial labour and those who do not is quite different and there are many more agricultural labourers than in the west. The lack of households with relatives in the south east could be explained by the marked concentration of professionals in the region. It would be premature, though, to claim that it is the presence of farmers using familial labour in Wales, of agricultural workers in East Anglia and of professionals in the south east that accounts for the differences between these regions in the proportion of households with relatives. The link between socio-economic group and the proportion of households with relatives has been established on a national basis and the pattern in a particular region or sub-region need not be the same.

To proceed further, therefore, it is necessary to switch direction yet again by taking into consideration the historical base to the regional patterns of 1971. How long had they been in existence? Might there be a tradition of staying with relatives in particular areas perhaps built up by a set of circumstances in the past, long since disappeared? These could be as old as the social structures to which they now apparently attach or even older. They might even be part of a division that distinguished the areas subject to Celtic influence from the rest of the country.

To test this proposition let us look at the regional pattern as it appears from the censuses of 1851, 1951 and 1961, beginning with the last as in definitions and detail it comes closest to those of 1971. Nevertheless there is a certain loss of information in that for

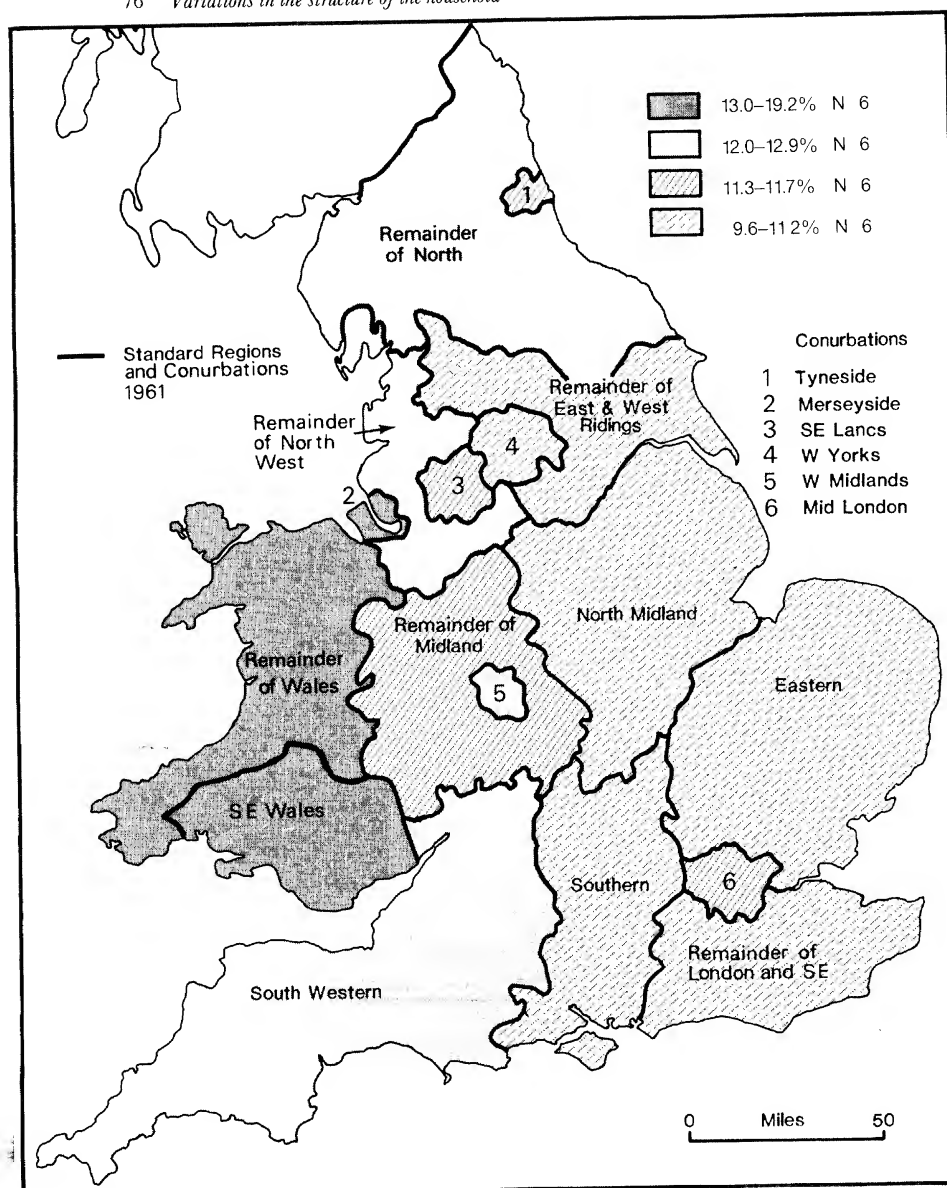


Figure 2(a) and (b) *Great Britain 1961. Proportion of households with relatives in standard regions, subregions and conurbations (definitions of 1961).*

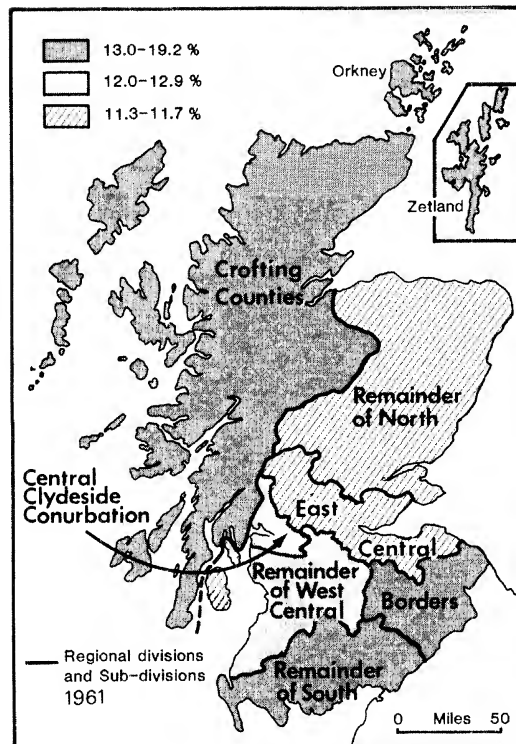


Figure 2(b)

England it is possible to distinguish conurbations and regions but not sub-regions. For Wales and Scotland the situation is a little better but comparison with 1971 is again made difficult by the fact that the boundaries of the sub-regions are differently drawn. The result is 24 analysis areas divided into four categories according to the proportion of households with relatives compared with the 71 areas spread over five categories for 1971. Taking all these factors into consideration, however, it would appear that in 1961 the pattern of household complexity as measured by the presence of relatives, was broadly the same as in 1971, a fact of considerable importance given the dramatic change that had occurred in the overall proportion of households with relatives (see table 1, pp. 91-3 and figures 1 and 2).

To proceed further back in time it becomes necessary to move to a still higher unit of aggregation as for 1951 regional level data only is available. For the purposes of comparability the figures for 1961 and 1971 have been reproduced at regional level yielding 12 areas

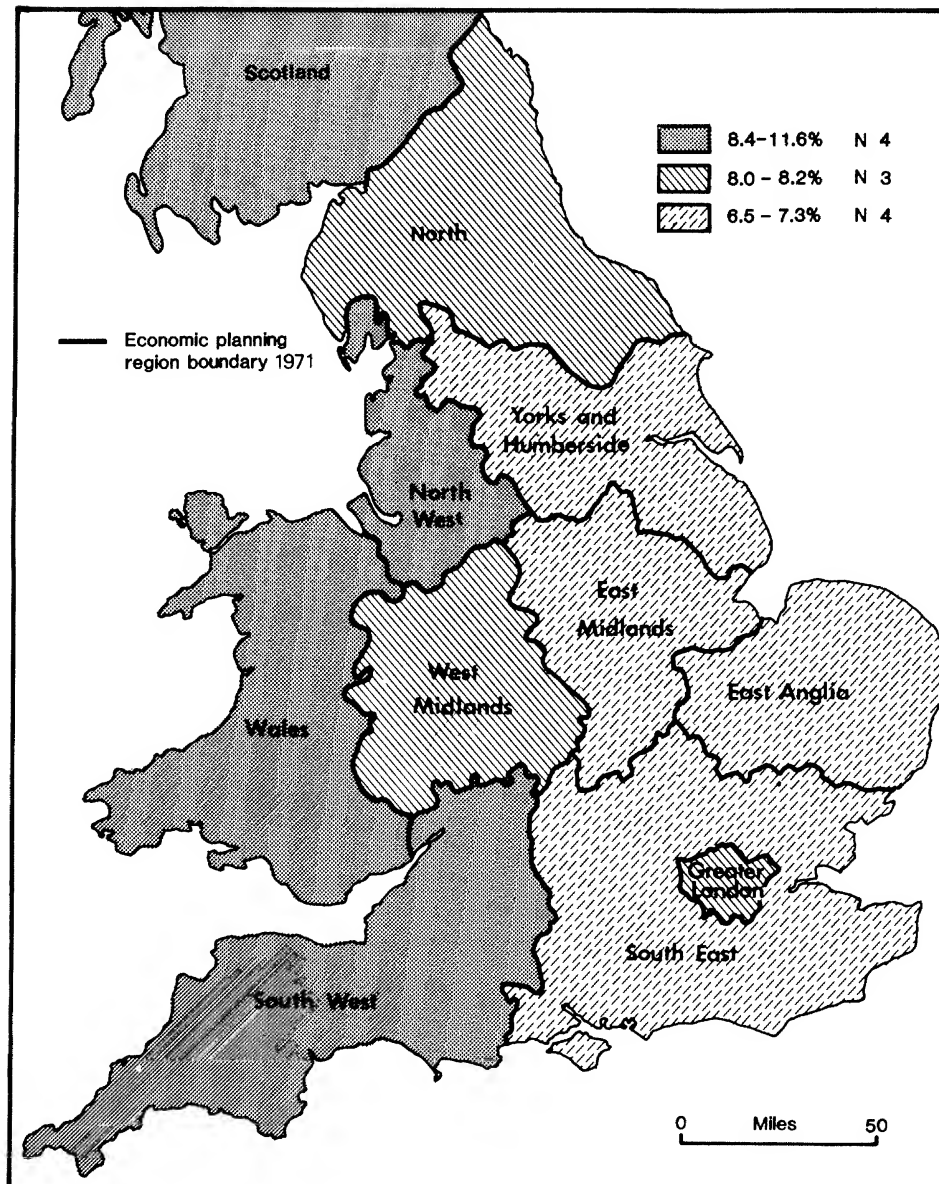


Figure 3 Great Britain 1971. Proportion of households with relatives in economic planning regions (definitions of 1971).

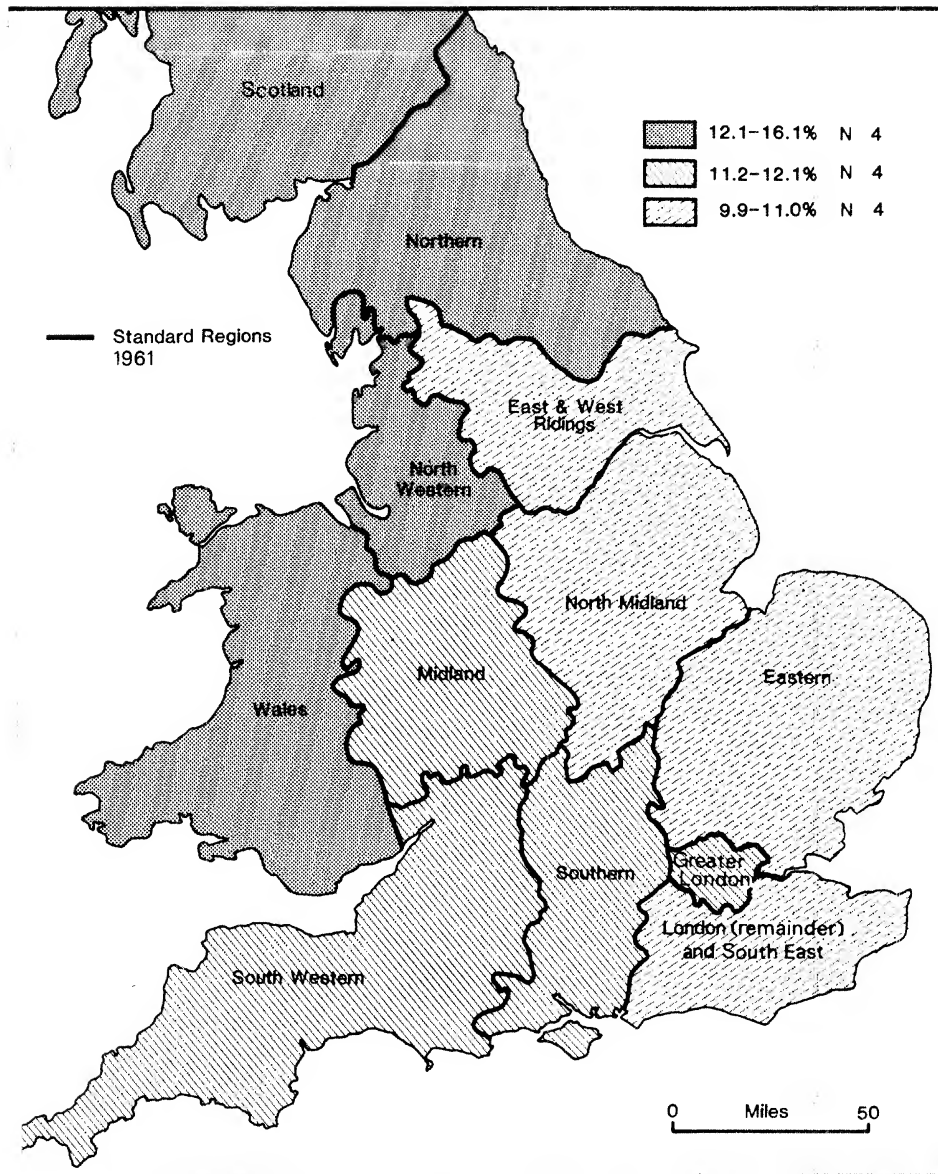


Figure 4 Great Britain 1961. Proportion of households with relatives in standard regions (definitions of 1961).

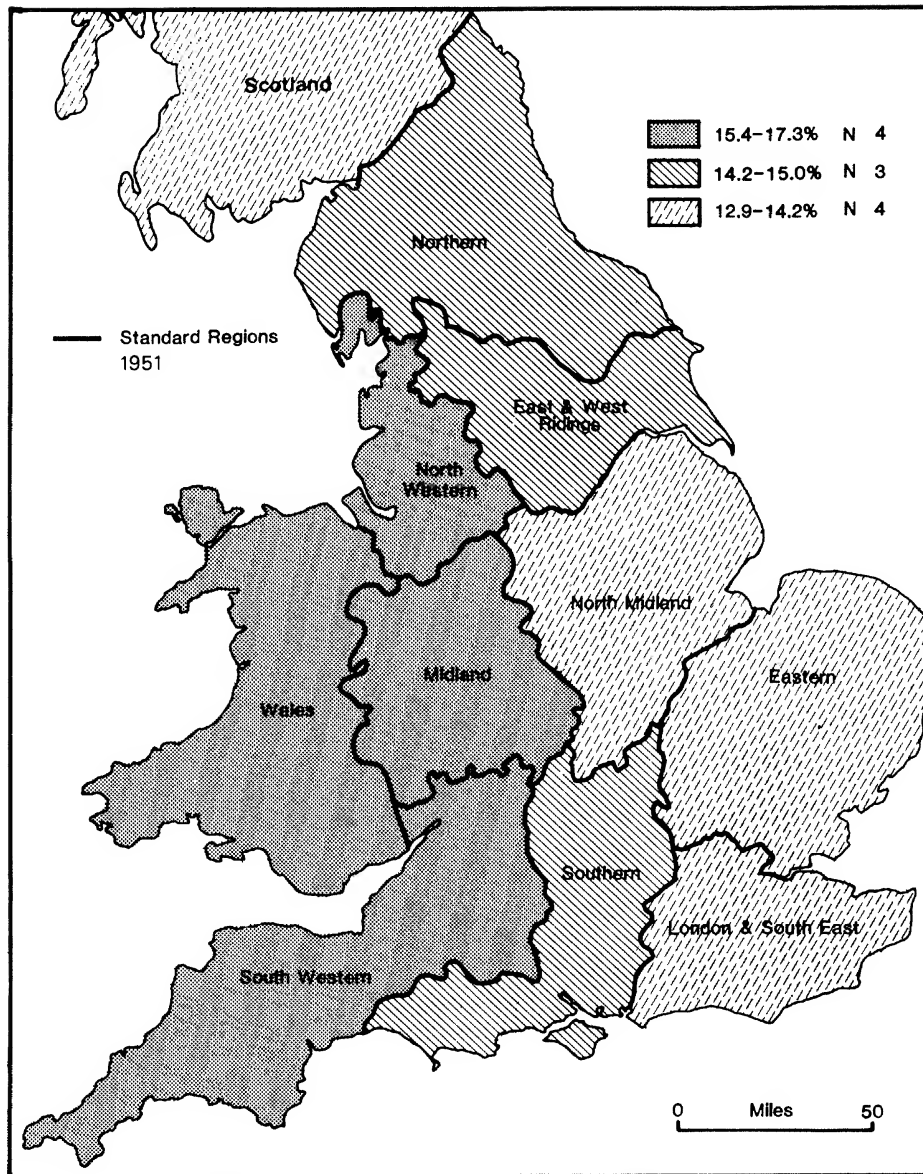


Figure 5 *Great Britain 1951. Proportion of households with relatives in standard regions (definitions of 1951).*

in 1961 and 11 in 1971. The loss of information that results from using regional rather than sub-regional data may be judged by comparing figure 3 with figure 1. The former completely misses, for example, the above average proportion of households with relatives in north-west England. It is unfortunate, too, that even at regional level changes in boundaries between censuses make it impossible to preserve strict comparability. In 1951, for example, there is no separate figure for Greater London and the southern region projects westwards to include Dorset while between 1961 and 1971 the southern region disappears altogether, to be replaced by a circular area around London which absorbs, as well as the old south-east, a sizeable section of the eastern region. For 1951 there is also the totally different categorization system of primary family units and 'remainders' with which to contend (see above).

As far as it is known no previous attempt has been made to summarize the 1951 figures in terms of the total number of households with relatives. It is appropriate, therefore, to say something very briefly about the methods that have yielded the results in figure 5. The totals of households with relatives have been produced by summing the number of primary family unit households with near relatives, and two sorts of composite households — with family nuclei formed by the presence of the son or daughter of the head, or with other relatives. Two great assumptions have had to be made. The first is that the proportion of composite households with relatives and related nuclei, which is available only on a national basis, is applicable to all regions. Secondly, although the total number of the composite households with nuclei and relatives is known, the number containing both relatives and nuclei is not and the assumption was made that composite households without nuclei were at equal risk to contain these additional relatives. Needless to say the margin for error is considerable.

Despite all these problems, however, the 1971 pattern of rather more households containing relatives in the west than in the east seems to hold up. There is just one exception, and it is a sufficiently important one to preclude a general claim about regional differences having been maintained throughout the post-war period. In 1951 Scotland was one of the areas where households with relatives were least frequent. By 1961 it had already moved into the top category (ranking third of the 'regions') and a decade later came second only to Wales. It is important to realize that it is not a case of the proportion of households with relatives having increased in real terms in Scotland, rather that the relative decline has been less marked here than elsewhere.

To move back a further century, however, is to introduce a

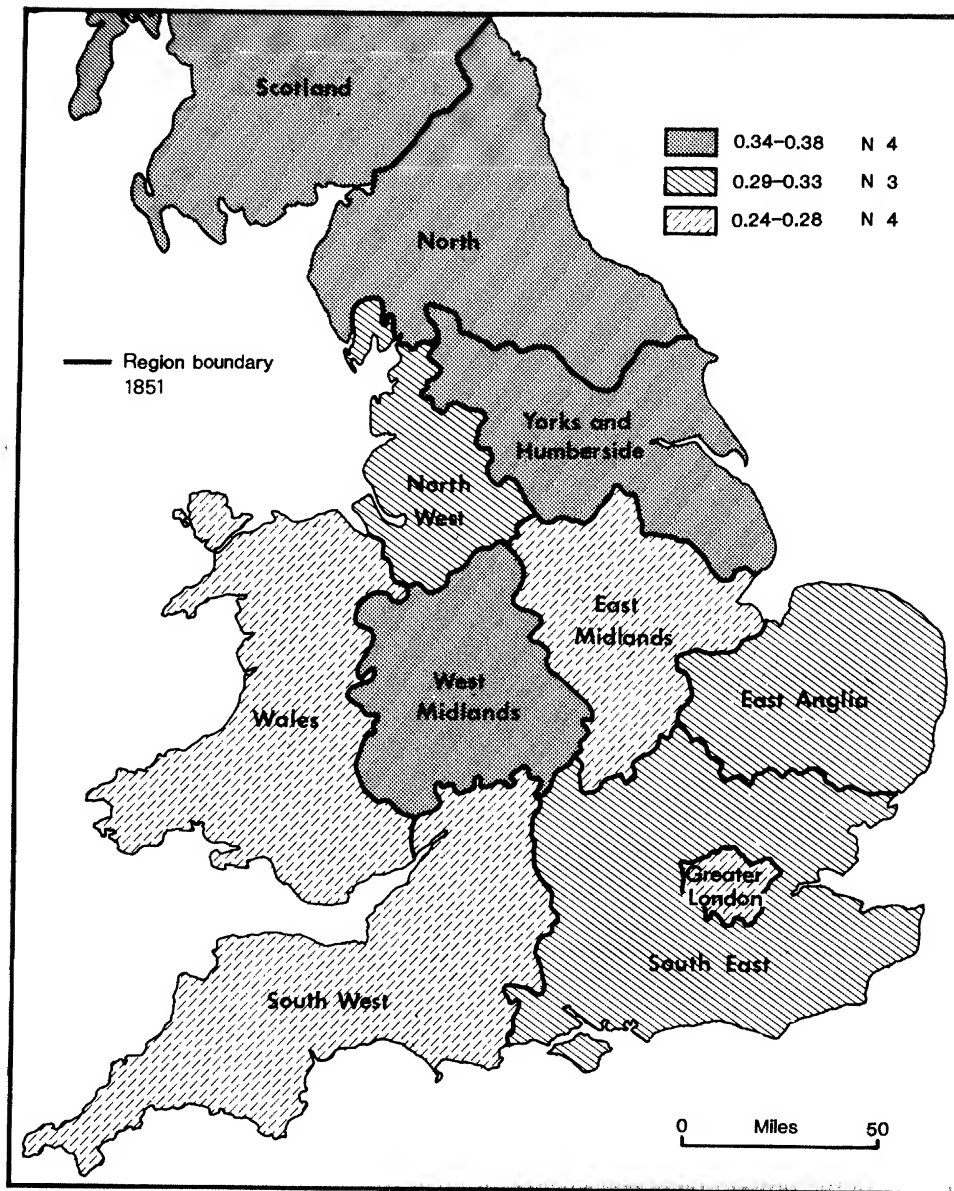


Figure 6 *Great Britain 1851. Proportion of households with relatives in economic planning regions (definitions of 1971).*

totally different regional picture (figure 6). In 1851 the areas where relatives were least frequent included Wales and the South-West. The east, the low area of the mid-twentieth century occupied a middle position and relatives were most numerous in Scotland and North-East England. Admittedly these figures differ in two ways from all those previously considered. First, the source is a one in four sub-sample by Michael Anderson of enumerators' schedules which in turn constitute a 2 per cent sample of the enumeration districts of 1851. The regional figures are derived, therefore, from a sample of districts rather than, as elsewhere, from a sample of households. Secondly, the figures show the number of relatives per household rather than the proportion of households with relatives which at the time of writing was not possible to calculate from the existing computer tapes. This apparently rather obscure measure is preferred to the more straightforward proportion of relatives in the total population. One of the problems with the latter measure is that the changes in fertility exert such a powerful influence on total population size that calculations of, for example, the proportion of relatives in the population, are more likely to reflect the level of fertility than they are the frequency of relatives.

There is not the time here to explain the basis of the sampling method of Michael Anderson who has issued a number of guides to aid those wishing to use the collection for their own purposes and placed all the data on tape in the SSRC Survey Archive at the University of Essex. There is no reason to think, however, that either the sampling method or the use of the mean number of relatives per household would overturn the two very broad conclusions which are all that we would wish to draw from the 1851 figures: namely that the 1851 regional pattern was very different from that of a century later and that the twentieth-century patterns emerged very late in the process of industrialization.

How many households with relatives?

In the light of these findings the issue of how the proportion of households containing relatives has changed since 1851 can be reassessed. On the basis of the figures given earlier the difference between 1851 and 1951 is relatively modest (from 20.2 to 15.0 per cent of households with relatives), especially given the comparison with the change since 1951. By 1961 the proportion of households with relatives had fallen to 12.8 per cent and by 1971, an even sharper decline had occurred to 7.7 per cent. It may also be observed that between 1851 and 1951 the regional pattern altered while the proportion of households with relatives fell only modest-

ly, but that between 1951 and 1971 the tendency was for regions to maintain an above, or below, average proportion of households with relatives, despite the fact that at the same time the frequency of living with relatives was being halved.

In considering the *proportion* of households with relatives it is important to remember that ideally one ought to make various adjustments to correct for the under or over-counting of relatives in particular censuses. The former seems the more likely but over-counting is technically possible depending on the definition of relative thought appropriate (in both 1961 and 1971 but not earlier widowed and divorced children without offspring of their own are counted as relatives). Under-counting of other household types, particularly one-person households, will also artificially raise the proportion of households with relatives. To carry out all these adjustments would be an exceedingly tedious task and lead in all probability to a result that was still highly questionable. Hence all the figures presented here are uncorrected. As an example of what such revision might entail, however, the following propositions may be considered. To the registered number of households with relatives in the censuses of 1951-1971 would need to be added those households with grandchildren residing with a grandparent in the absence of their own parents. The 1951 figures for households with relatives would also need inflating to account for certain siblings registered as children, for an over-counting on the 1961 definition of one person households sharing a room, and together with the 1851 figure for not having included as relatives ever-married children without offspring of their own. On the other hand the revised 1961 figure would need deflating because of the under-registration of one person households. Overall the effect would probably be to increase the registered decline in the proportion of households with relatives between 1951 and 1961 at the expense of that between 1851 and 1951 and 1961 and 1971. If we focus on the 1951 figure, however, there is no evidence yet available to suggest that the frequency of living with relatives was then much lower than it had been in the middle of the nineteenth century.

Another problem is what was happening to the proportion of households with relatives in the long interval between 1851 and 1951. Very little systematic work has been carried out on the enumerators' schedules of the 1861, 1871 or 1881 censuses and the remainder are closed under the hundred year rule. Ebery and Preston suggest 19.0 per cent of households with relatives in 1871 (this is the mean figure for a total of 20 non-random but economically and socially diverse settlements). There is also the special analysis of household structure carried out at the time of the 1861

census which yields a proportion of households with relatives averaging 16.3 per cent (the median value based on 14 settlements). This is quite an interesting figure in that the comparable figure for 1851, also for 14 settlements, was 20.2 per cent. This discrepancy could result from the choice of a different set of 14 settlements in each year but there is some evidence to suggest that it may have arisen rather from the census officials who worked on the special tabulations having adopted different definitions of the household. It is noticeable, for example, that the proportion of households headed by single persons 'fell' sharply, between 1851 and 1861 and that there were in 1861 fewer single people living alone and more households with visitors and boarders, all of which one might expect if the rules according household status to individual lodgers had been less rigidly applied. However, whether the difference between 1851 and 1861 is due to temporal, spatial or definitional factors, the main point is that the mid-nineteenth century 'estimate' of households with relatives moves closer to that of the mid-twentieth.

To plug the gap after 1881 caused by the closure of the censuses under the 100 years rule the only recourse at present is to fall back on such indirect measures as headship rates. This is not particularly satisfactory from the present point of view since headship rates (the proportion of persons heading households) are influenced not only by the presence of relatives in households and therefore not establishing their own households, but by a number of other factors. These include the number of non-relatives, the age at which children leave the parental home and, if age specific and marital status specific rates are not produced, by changes in age structure and in age at marriage and proportions marrying. Nevertheless headship rates do at least make it clear whether the pace of household formation altered between 1871 and 1951. There are in fact two studies that can be called upon. The first, by Block, is based on the ratio of adults to households. The lower the ratio, Block argued, the more adults had been absorbed into the households of others. This index reached its low point in 1921 having declined steadily from a high point in 1871; 1921 was therefore the 'crunch point' in terms of housing needs. The difference between the high and low points, however, was only 12 per cent implying a greater degree of continuity in the pace at which new households were formed than Block seems prepared to allow.

Continuity is certainly what is stressed by the authors of the second study published in 1971 (W. V. Hole and M. T. Pountney) which is based on the more widely accepted technique of headship rate and covers a wider period (1861-1966). They found that 1951

headship rates specific to age, sex and marital condition gave a very good guide to the number of households as far back as 1861. In other words the rules regarding the formation of new households had not changed throughout the period in terms of an individual's age, sex and marital condition, although two riders must be added, the first concerning 1921 and the second 1951 itself. 1921 is, as in Block's analysis, an exception, being the one occasion on which the number of households expected is in excess of the number actually recorded. This can be interpreted as further evidence of families having to share accommodation because of the drop in house building before and during the First World War. Otherwise, the number of households recorded in the censuses were always slightly in excess of their estimates derived from 1951 headship rates which tends to lend support to the widely canvassed suggestion that the housing shortage after the Second World War was still retarding the formation of new households in 1951. Of course, as Hole and Pountney are careful to make clear, none of this bears directly on the kin composition of the household. The general picture of stability which emerges, however, is one which it seems reasonable to think that relatives will conform to in the absence of any evidence to the contrary.

Towards an explanation

After 1951 and more particularly after 1961 the situation is clearly very different. It has already been established that the proportion of households with relatives was probably halved during this period. At the same time the 1951 headship rates become increasingly unreliable as a guide to the numbers of new households. Headship rates moved up sharply for married men under 40, for widowed women and there were more spectacular gains by single women and men.

As an example of the sort of increases that are involved, we may take the case of never-married women aged 60 and above. In 1951 no more than 46.7 per cent of these women headed their own households. By 1971, 68.3 per cent of such women did so.

It is important to recognize that there are two problems requiring a solution. The change after 1951 is certainly dramatic and it would be easy to give this all the attention, but equally if not more puzzling is the stability of the previous century or, to be cautious, the similarity between 1851 or 1861 and 1951, given the economic and social change engendered by the growth of towns, the development of the new types of employment and the decline of old ones such as working on the land.

Britain's recent experience, it will be no surprise, has not been unique. It is known that parallel developments in recent years have taken place in the rest of Europe, the United States and Japan although the pace of change has not always been the same and has at times eaten its way into quite different family systems. Some of these countries have rather better data at their disposal than it has been possible to assemble for Britain and it is worth listing the factors that have been advanced to explain the break up of the more complex households and the proliferation of one person households. To take the case of Japan, a recent study identified three critical factors behind a decline in households with relatives from 34.7 per cent in 1960 to 29.3 per cent in 1965 and 25.3 per cent in 1970. These were higher proportions employed resulting in geographical mobility and increased life expectancy after the war producing more small households consisting of aged persons.

Such explanations could be equally relevant to the British experience. It has already been demonstrated, for example, how the households of professionals in Great Britain, likely to have had the most experience of higher education and conditioned to mobility through the nature of their employment, were among the least likely to contain relatives. If we now take further guidance from the work that has been done on Britain based principally on headship rates, it can be seen that the various possible explanations can be grouped under four heads, demographic, housing, economic and behavioural. For example, the demographic explanation would be that the proportion of households with relatives has fallen only because increased life expectancy has added to the number of households least likely to contain relatives; added perhaps a totally new phase to the life cycle. Hole and Pountney say that it was demographic factors that had kept headship rates steady up to 1951, thereafter they appear to give greater weight to the second factor, housing. The relevance of housing seems patently obvious. If it is not available people will have to crowd together: conversely as slum clearance programmes are implemented and housing provided for elderly persons, so overcrowding falls and the headship rate of the elderly rises. In practice the relationship between new housing and new households is not so straightforward. After all it is not so much the total stock of housing that counts but the availability of a suitable house at the time that an individual wishes to form a household. There is also the problem that exercised Hole and Pountney so strongly: that the housing market has continued to provide houses suitable for 'families', indeed that the housing stock has in fact become more homogenous in terms of size, at the same time as the *household* has fragmented into smaller

and smaller units. Not all of this is to be accounted for by an attempt to meet the demand for greater space in the home and the consequence has been an increasing disjuncture between housing provision and housing needs.

Neither is it particularly easy to settle the importance of economic and behavioural factors. The underlying assumption behind Block's study, for example, is that people have long valued privacy. Accordingly there would be no behavioural change when in the 1950s their wishes were, with rising incomes, translated into independent households and significantly, a recent study of trends in living arrangements in the United States (Michael et al. 1980) has singled out income as the chief factor behind the rise since 1950 in the number of young adults (25-34) and elderly widows (65+) living alone. The difficulty comes from the fact that living standards have risen generally if not consistently from the 1860s. Supporters of economic based arguments have therefore had to think in terms of a certain (but undefined) 'income threshold', set in the 1940s for the United States, in the 1950s perhaps, for Britain, when the rise in the living standards was first translated into separate living accommodation. The behavioural model also has to cope with the question of whose behaviour has changed; is it the decision of the person who would have taken in the relative, or that of the potential lodger-relative, or even a joint decision by the two (or more) persons not to co-reside? To take a particular example: are more of the elderly living alone because of the excellence of the state's social services or because their children are more tied than were past generations of children to their own concerns and do not wish any longer to open their homes to their parents? This is a question which research has not yet been able to solve although on it depends the whole issue of whether one should respond positively or negatively to an increase in 'living alone'.

To the general debate previously based for the most part on the analysis of headship rates this paper has added three new elements: a longer temporal perspective, and the links between the proportion of households with relatives and specific regions and socio-economic groups. Most of the earlier arguments, it will have been seen, were framed with the intention of explaining temporal change, yet the temporal perspective has often been short, and, even when historical evidence has been introduced, it has been considered very briefly, avowedly to allow more time for interpretation of the present. The full significance of the fact that many people lived alone in nineteenth-century Britain (in the sense that they were lodgers) has not therefore been fully appreciated. Viewed from this perspective, some of the rise after 1951 in one

person households merely reflects the fact that people now have more living space at their disposal. It has been our contention that this constitutes a more dramatic development than any change that may have overtaken the frequency with which households encompassed relatives. It is important to make it clear, though, that the creation of these new households has, of course, influenced the proportion of households with relatives, even if it took no relatives out of the households with relatives, simply by expanding the total number of households. In addition, there can be no doubt that after 1961 the household has fragmented in more ways than could be accounted for by disappearing lodgers, although the process is certainly not fully understood. Income may indeed be the critical factor but in what circumstances it is expended on housing, and by whom, in a situation where they might otherwise co-reside, is far from clear. The decline in the proportion of households with relatives has also to be interpreted in conjunction with the association of the presence of relatives in the household with specific regions and socio-economic groups.

Both the variations by socio-economic group and by region in the frequency with which households contain relatives need, though, to be kept in perspective since the differences between individual socio-economic groups and regions are rather fine. Could there be a tradition of extended family living in particular areas? The balance of the evidence presented above is rather against it in that it is very difficult to conceive of factors which could link together the very diverse regions and the socio-economic groups which share the same pattern of taking in relatives. For example, what sort of bond should be looked for common to the people of mid-Wales and those of Merseyside?

One possibility worth considering is that there are variations between these regions in the type of relative taken into the household, variations that we have missed in this paper by focusing on relatives as a group. For want of detailed evidence it has been necessary to group all relatives together, but it is an open question whether it is the same process that brings into the household siblings, parents and married offspring. Admittedly a limited sort of breakdown for the 1971 figures can be carried out, separating for instance one-family households with relatives from no-family or two-family households. Some of this can be quite revealing. For example there is some sign that two-family households formed a higher proportion of the households with relatives in coalmining areas (the rank order of the sub-regions shows the five leading areas to include South Yorkshire and the Yorkshire coalfield, the Nottingham-Derbyshire coalfield and the Central and Eastern

valleys of South Wales and West South Wales).

None of this, however, can compensate for the absence of precise information on relationship to the household head. When this is available, as in the analysis of the 1851 enumerators' schedules, it is possible to show that the regions varied not only in terms of the size of the kin element in the household but also in terms of the type of relative present, even down to such details as nieces rather than nephews in some areas and the reverse in others. This element of the household is certainly small and the relationship between the household and the degree of co-operation with the kin outside it, is of unknown quality. Nevertheless the taking into the household of relatives involves from any point of view a major commitment of resources and in identifying variations in the type of relative at regional level we are picking up an important aspect of the family system. If the same should hold true for 1971, it might seem that we have suggested a spurious unity in establishing the proportion of households with relatives as a defining characteristic of an area. On the other hand, all these 'extras' are bound to the households by ties of kinship. It is, therefore, meaningful to group relatives together under a general category of 'persons related to the head of the household', just as one might measure the number of servants per household despite the differences in their precise functions in the household.

The decision to look at all relatives is in any case forced upon us by the lack of relevant information and it is to be hoped that OPCS will, with the 1981 and later censuses, provide some of the tabulations that would be necessary. Preferably these should be produced at a lower level of aggregation than that of the region or sub-region which, although based in part on the planning region and therefore having some logic, is in many ways an unsatisfactorily large unit of analysis. Smaller areas, however, will inevitably mean smaller numbers and a whole battery of new techniques involving simulation of household structures in a given set of demographic and economic circumstances, will have to be developed to distinguish random variation from variation that implies a different set of norms regarding co-residence. There is also a need to consider carefully how far it is possible to infer from all this how household structures may evolve in the immediate future. Students of British headship rates are generally agreed that there is room for further rises, particularly at the younger ages and the latest surveys (General Household Survey 1980 containing data for 1978) are still showing a further fragmentation of households. However, it would be unwise to predict rapid change in the future simply on the basis of rapid change in the past. If it is income level

in relation to the cost of 'adequate' housing that has sparked off the changes to the household of recent times, then we may find that if the economy takes a further nose dive, there is a halt to further fragmentation and, within some sections of the population, a resurgence of the extended family.

Table 1 *Households containing relatives: Great Britain 1851-1971 Regions.*

1851	
<i>Region</i>	<i>Mean relatives per household</i>
North	0.37
Yorkshire-Humberside	0.34
North West	0.31
East Midlands	0.28
West Midlands	0.36
East Anglia	0.33
Greater London	0.26
Remainder of South East	0.29
South West	0.25
Wales	0.24
Scotland	0.38

1951	
<i>Region</i>	<i>Proportion of households with relatives</i>
Northern	15.0
Yorks: East & West Ridings	14.2
North Western	16.3
North Midland	14.1
Midland	15.5
Eastern	14.2
London and South East	12.9
Southern	14.2
South West	15.4
Wales	17.3
Scotland	14.1

1961

<i>Region</i>	<i>Proportion of households with relatives</i>
Northern	12.1
Yorks: East & West Ridings	10.2
North West	12.4
North Midland	9.9
Midland	12.0
Eastern	9.9
Greater London	11.4
Remainder of South East	11.0
Southern	11.2
South West	12.1
Wales	16.1
Scotland	12.3

1971

<i>Region</i>	<i>Proportion of households with relatives</i>
North	8.1
Yorkshire-Humberside	6.9
North West	8.8
East Midlands	7.0
West Midlands	8.2
East Anglia	6.5
Greater London	8.0
Remainder of South East	7.3
South West	8.4
Wales	11.6
Scotland	9.1

Sources

1851. One in four sub-sample of 2 per cent sample of enumeration districts (yielding 178 districts). Data in machine-readable form deposited by Michael Anderson at SSRC Survey Archive, University of Essex. I am grateful to Michael Anderson of the University of Edinburgh for granting access to the data and to Ros Davies for further programming undertaken at the SSRC Cambridge Group.

1951. Calculated from *Census of England and Wales 1951 Housing Report* Appendix A, tables A1, A5; and *Census of England and Wales 1951. 1 per cent sample tables*, part II, section VI, table vi:8

1961. Figures for England and Wales calculated from *Census of England and Wales 1961. 10 per cent sample. Household composition tables*, table 26, Households containing children, persons of pensionable age (distinguishing non-earners) and domestic servants by household type. Figures for Scotland calculated from *Census of Scotland 1961, 10 per cent sample. Household composition tables*, vol. IV, part II, table no. and title as for England and Wales.

1971. Figures for England and Wales calculated from *Census of England and Wales 1971. 10 per cent sample. Household composition tables*, table 13. Figures for Scotland calculated from *Census of Scotland 1971. 10 per cent sample Household composition tables*, table 26.

For details on the calculations and guidance on the delineation of the regions see the chapter by Wall above, and especially figures 3-6.

Table 2 *Number and proportion of households with relatives: Great Britain 1971*
Economic planning sub-regions

<i>Region</i>	<i>Sub-region</i>	<i>Total households</i>	<i>Households with relatives</i>	
			<i>No.</i>	<i>%</i>
North	Industrial North East			
	North	54,612	4,234	7.8
	South	29,802	2,259	7.6
	Rural North East			
	North	4,703	406	8.6
	South	9,538	718	7.5
	Cumberland & Westmorland	12,130	1,231	10.1
Yorkshire and Humberside	North Humberside	15,939	1,051	6.6
	South Humberside	10,422	754	7.2
	Mid-Yorkshire	14,466	1,022	7.1
	South Lindsey	5,269	332	6.3
	South Yorkshire	26,179	1,783	6.8
	Yorkshire Coalfield	25,981	1,605	6.2
	West Yorkshire	67,832	4,496	6.6
North West	South Cheshire	18,320	1,396	7.6
	South Lancashire	21,838	1,793	8.2
	Manchester	85,479	6,699	7.8
	Merseyside	55,992	5,659	10.1
	Furness	3,714	353	9.5
	Fylde	10,857	1,072	9.9
	Lancaster	4,333	402	9.3
	Mid-Lancashire	11,010	876	8.0
	North East Lancashire	17,051	1,301	7.6
East Midlands	Nottingham & Derby Coalfield	25,642	1,886	7.4
	Nottingham-Derby	35,021	2,212	6.3
	Leicester	24,870	1,782	7.2
	Eastern Lowlands	13,621	899	6.6
	Northampton	15,912	991	6.2
West Midlands	Central			
	North	19,384	1,304	6.7
	South	19,841	1,450	7.3
	Conurbation	78,439	6,755	8.6
	Coventry Belt	22,642	1,535	6.8
	Rural West	11,015	946	8.6
	North Staffordshire	17,251	1,429	8.3

Table 2 Continued

Region	Sub-region	Total Households	Households with relatives	
			No.	%
East Anglia	South East	13,118	879	6.7
	North East	21,326	1,331	6.2
	North West	10,536	716	6.8
	South West	12,257	713	5.8
South East	Greater London	266,874	21,472	8.0
	Outer Metropolitan			
	West	31,679	2,297	7.2
	North	37,883	2,416	6.4
	East	31,517	2,119	6.8
	South East	25,681	1,670	6.5
	South	20,691	1,470	7.1
	South West	25,752	1,878	7.3
	Outer South East			
	Essex	14,335	876	6.1
	Kent	22,148	1,597	7.2
	Sussex Coast	37,053	2,776	7.5
	Solent	55,819	4,278	7.7
	Beds & Bucks	9,976	673	6.7
	Berks & Oxon	16,671	1,173	7.0
South West	Central	24,812	1,917	7.7
	Southern	28,749	2,544	8.8
	Western	16,807	1,581	9.4
	North Gloucestershire	15,596	1,248	8.0
	Bristol-Severnside	31,654	2,545	8.0
	North Wiltshire	11,311	779	6.9
Wales	Central and Eastern Valleys	21,008	2,715	12.9
	West South Wales	15,503	2,117	13.6
	Coastal Belt	23,936	2,438	10.2
	North East Wales	7,594	632	8.3
	North Coast	4,294	395	9.2
	Remainder North Wales	7,749	788	10.2
	Central Wales	2,811	305	10.8
	South West Wales	7,623	925	12.1
Scotland	North East	14,829	1,315	8.9
	Highlands	8,896	1,186	13.3
	Tayside	15,557	1,151	7.4
	Edinburgh	34,531	2,746	8.0
	Falkirk	8,010	647	8.1

Table 2 *Continued*
Economic planning sub-regions

<i>Region</i>	<i>Total Households</i>	<i>Households with relatives</i>	
		No.	%
Glasgow	79,531	7,636	9.6
South West	4,866	492	10.1
Borders	3,608	335	9.3
England	1,571,350	122,517	7.8
Scotland	169,828	15,508	9.1
Wales	90,538	10,471	11.6

Sources

10 per cent sample. Figures for England and Wales calculated from unpublished extension to *Census 1971 Household composition tables*, table 13, Households containing dependent children, persons of pensionable age and domestic servants by household type, available for the cost of reproduction from Customer Services, Census Office, OPCS, Titchfield, Fareham, Hants PO15 5RR. Figures for Scotland calculated from Unpublished Table 644, Households containing dependent children, persons of pensionable age and domestic servants by household type, available for the cost of reproduction from General Register Office for Scotland, Ladywell House, Ladywell Road, Edinburgh EH12 7TF.

Table 3 *Number and proportion of households with relatives by social class and socio-economic group: England and Wales 1971*

<i>Social class</i>	<i>Total Households</i>	<i>Households with relatives</i>	
		No.	%
I Professional, etc. occupations	71,127	3,964	5.6
II Intermediate occupations	288,619	22,413	7.8
III(N) Skilled occupations: non-manual	1,206,574	17,591	8.5
III(M) Skilled occupations: manual	501,629	42,193	8.4
IV Partly skilled occupations	266,350	25,259	9.5
V Unskilled occupations	107,771	11,327	10.5
Not classified	128,541	8,556	6.6
<i>Socio-economic group</i>			
1 Employers and managers in industry, commerce, etc: large establishments	59,219	4,238	7.2
2 Employers and managers in industry, commerce, etc: small establishments	129,377	9,656	7.5
3 Professional workers: self employed	13,540	784	5.8
4 Professional workers: employees	57,587	3,071	5.3

Table 3 Continued

	Total Households	Households with relatives	
		No.	%
5 Intermediate non-manual workers (auxiliary workers, artists, foremen and supervisors non-manual)	98,735	6,816	6.9
6 Junior non-manual workers	210,394	17,615	8.4
7 Personal service workers	33,790	2,999	8.9
8 Foremen and supervisors: manual	56,466	4,573	8.1
9 Skilled manual workers	382,886	31,248	8.2
10 Semi-skilled manual workers	187,038	17,600	9.4
11 Unskilled manual workers	103,662	10,573	10.2
12 Own account workers (non-professional)	68,064	5,457	8.0
13 Farmers: employers and managers	12,226	1,123	9.2
14 Farmers: own account	11,656	1,541	13.2
15 Agricultural workers	17,430	1,372	7.9
16 Members of armed forces	14,962	512	3.4
17 Inadequately described occupations	113,579	7,880	6.9
Retired	258,104	15,363	6.0
Students	5,256	178	3.3
Others economically inactive	86,021	2,391	2.8

Source

Calculated from *Census of England and Wales 1971*, 10 per cent sample, Unpublished table 621 U, Household by type and size and by social class and socio-economic class of chief economic supporter. Unpublished tables are available for the cost of reproduction from Customer Services, Census Office, Office of Population Censuses and Surveys, Titchfield, Fareham, Hants PO15 5RR

Further reading

M. Anderson, *Family structure in nineteenth century Lancashire*, Cambridge University Press, Cambridge, 1971. This remains the most thorough study of household and family structure in an English town of the nineteenth century (Preston in 1851). Its particular excellence lies in the theoretical perspective on the motives for co-residence.

W. A. Armstrong, 'A note on the household structure of mid-nineteenth century York in comparative perspective' in P. Laslett, and R. Wall, eds, *Household and family in past time*, Cambridge University Press, Cambridge, 1972, contains a comparison of various attributes of households in York in 1851 and pre-industrial England with a summary of the special analysis of household structure in 14 enumeration districts carried out in conjunction with the census of 1851.

A. Block, *Estimating Housing Needs*, The Architectural Press, London, 1946, surveys trends in household size and structure (using a ratio of adults to households) in England and Wales between 1861 and 1931 coming to the

conclusion that one-person households had been consistently under-enumerated and that many people had been deprived of the possibility of forming households because of a lack of suitable accommodation.

T. K. Birch, 'The index of overall headship: a simple measure of household complexity standardized for age and sex', *Demography*, no. 17(1), February 1980, pp. 25-37. The paper develops and tests an age-sex standardized measure of household complexity, defined broadly as the tendency of adults (other than spouses) to head households or to share households. Results are presented for 33 countries c. 1960.

H. Doering, 'Die wirtschaftliche und soziale struktur der Drei-Generationen-Familie. Bisherige Entwicklung und Künftige Gestaltungsmöglichkeiten unter bevölkerungspolitischen Aspekt', *Materialien zur Bevölkerungswissenschaft*, Heft 14, Bundesinstitut für Bevölkerungsforschung, Wiesbaden, 1979. This is rather more comprehensive than its title suggests, containing many detailed tables on the structure of the household in West Germany since 1949.

W. V. Hole and M. T. Pountney, *Trends in population housing and occupancy rates 1861-1961*, Department of the Environment, Building Research Station, HMSO, 1971, discusses the relevance to the British situation of a number of factors that influence household composition, namely, kinship organization, demographic structure of the population, the financial resources of the group or individual and the availability of housing. 1951 headship rates are projected back to 1861 and forward to 1966 and compared with the actual numbers of households. There is also a useful comparison between the structure of the household in the 14 sub-districts originally undertaken in 1861 and in the 1 per cent sample for Great Britain in 1951.

A. E. Holmans, 'Housing tenure in England and Wales: the present situation and recent trends', *Social Trends*, 9, 1979, covers the period 1961-1976 and notes an increasing tendency of the elderly to live on their own and a substantial fall in the number of young married couples living with their parents, but does not offer a detailed breakdown of household membership.

W. F. F. Kemsley, *The Family Expenditure Survey. Handbook on the Sample, Fieldwork and Coding Procedures*, HMSO, 1969, is indispensable for anyone wishing to make use of the data collected as part of the survey.

P. Laslett, 'Mean household size in England since the sixteenth century' in P. Laslett and R. Wall, eds., *Household and Family in Past Time*, Cambridge University Press, Cambridge, 1972. An analysis of the main elements of the household in pre-industrial England which established that households had not been particularly large or complex.

C. M. Law, and A. M. Warnes, 'The changing geography of the elderly in England and Wales', *Institute of British Geographers*, new series, no. 1 (4), 1976, pp. 453-71, charts the development of retirement areas since 1951.

R. T. Michael, V. R. Fuchs, and S. R. Scott, 'Changes in the propensity to live alone: 1950-1976', *Demography*, no. 17(1), February 1980, pp. 39-56.

This suggests that the growth of income has been the primary cause of the increasing numbers of single men and women 25-34 and elderly widows living alone in the United States. Other variables found to effect positively the propensity to live alone included mobility, schooling level and for younger people, a liberal social climate identified by state legislation on abortion in 1970.

E. Nakano, and N. Ikenoue, 'A demographic analysis of the change of family type', *Jinko Mondai Kenkyu*, no.149, January 1979, pp. 1-15. The article is in Japanese with an English summary (translation of table titles on the copy, in the library of the SSRC Cambridge Group). The authors point to increased employment participation, greater opportunities in higher education and increased life expectancy as the causes of the simplification of household types in Japan since 1935.

Office of Population Censuses and Surveys, *General Household Survey 1976*, HMSO, 1978. In addition to the figures the survey includes some commentary on changes in household structure in England and Wales since 1971. It is fuller than the survey by Holmans (above).

Organisation for Economic Co-operation and Development, Centre for Educational Research and Innovation, Le Bras, H., ed., *Child and Family: Demographic Developments in the OECD Countries*, OECD, Paris, 1979. This is a comparative study of the composition of households and families based on census data from 20 countries, mainly for the 1970s but with some earlier material. It is particularly valuable because of its reproduction of various detailed tabulations that would otherwise have to be sought in the publications of the respective countries and for its notes on the way in which key definitions of the household vary from country to country.

M. Plessis-Fraissard, 'Households: a review of definitions, trends and forecasting methods', *School of Geography, University of Leeds, Working Paper No.164*, 1976 is an analysis based on headship rates for England and Wales showing stability of rates in the first half of the twentieth century, and important changes thereafter, caused by the increase of non-family households.

M. Stacey, et al., *Power, Persistence and Change. A Second Study of Banbury*, Routledge, 1975. This would appear to be the only study at the level of the individual community which has provided a detailed assessment of the extent to which the composition of the household has changed since 1950 and some reasons for the change.

R. Wall, 'Regional and temporal variations in English household structure from 1650', in J. Hobcraft, and P. Rees, *Regional Demographic Development*, Croom Helm, London, 1979, supplements the analysis by Laslett (see above). It documents variation in household structure in England between the seventeenth and nineteenth centuries and between five contrasting areas (London, Southampton, Shrewsbury, East Kent and East Wiltshire) c.1700.

8410
0440
U.K.

The decline of mortality in Britain 1870-1950

J. M. WINTER

The decline of mortality in Britain in the period 1870-1950 was on a scale both unprecedented and dramatic. In roughly three generations, crude death rates (deaths per 1000 population per year) were halved, infant mortality rates (deaths per 1000 live births per year) were reduced by 80 per cent, and mortality at all ages due to infectious diseases was reduced by approximately 90 per cent. Another way of measuring this astonishing change is in terms of life expectation at birth, which in England and Wales in 1861 stood at 40.5 years for men and 43.0 years for women. Sixty years later, after the First World War, the 50-year mark was passed for women but not yet for men. Ten more years were added to life expectation at birth for both sexes by 1951. It was only in the 1960s that infants born in England and Wales were likely to survive to the Biblical lifespan of threescore years and ten.

The full effect of these changes in survival rates may be gauged by noting that in 1947, approximately 590,000 people died in England and Wales. Had the death rates of a century earlier prevailed, over half a million more would have died.¹ In 1950, 95 out of every 100 children born in England and Wales survived to the age of five. In 1860, only 70 did so.² The elimination over less than a century of much of this toll of suffering and bereavement is one of the most important chapters in the social history of this country. It is the purpose of this essay to describe the process of mortality decline and to discuss the complex interplay of forces which brought it about.

Mortality decline: dimensions and components

1 International comparisons

Mortality decline was an international phenomenon. The increase

in life chances among Europeans since the middle of the nineteenth century was probably greater than the total gains made over the previous millenium. Everywhere in Western Europe the pace of improvement accelerated after 1900, and the gap in mortality experience between and among European nations narrowed. As Table 1 demonstrates, at the turn of this century, the rank order of the four major European countries in terms of life expectation at birth was England and Wales first, at about 45 years for men and 49 years for women, followed by France, Germany, and Italy. It is a chastening thought to observe that even after at least a generation of improvement in mortality rates, these nations were all at or below the level reached by Guatamala in 1963-5 and India in 1966-70. In Europe by the 1930s, Germany had taken the lead in life expectation at birth, registering approximately 60 years for men and 63 for women. England and Wales, Italy, and France followed in that order. These pre-Second World War improvements had brought life expectation in industrialized Europe to approximately the level reached by Tunisia in 1960 and Colombia in 1965. By the 1960s, the four major European nations virtually had converged in terms of mortality experience. Throughout this period, though, the Scandinavian countries and the Netherlands were consistently ahead of the rest of the Continent in terms of life expectation at birth. Despite such variations, it is clear that the decline of mortality in Britain was part of a wider process in which all European nations took part and from which all have benefited.³

Within Great Britain, aggregate mortality decline has meant a reduction in national variations. The one major exception to this rule is that in the nineteenth century, Scottish death rates were slightly lower than English and Welsh death rates, but higher after 1900. Probably originating in the comparatively late urbanization of central Scotland, this Scottish disadvantage in this century persists to the present day. The experience of Wales has not departed significantly from that of England, in part because the high mortality of coal mining regions was balanced by the low mortality of Welsh agrarian regions.

II Regional variations and uniformities in mortality patterns

Regional variations within England were significant throughout the period under review, but they diminished during the twentieth century. In 1859 Dr Farr published life tables based on the mortality experience of 63 districts, the death rate of each of which did not exceed 17.5. The crude death rate for England and Wales in 1861 was over 22. The selected villages and towns were denoted 'healthy' districts. It should cause no surprise that almost all were

Table 1 *Life Expectation at Birth in Selected Countries, 1900-1970*

<i>Country</i>	<i>Date</i>	<i>Life Expectation at Birth Males</i>	<i>Life Expectation at Birth Females</i>
England & Wales	1901	45.3	49.4
France	1898- 1903	45.3	47.0
Germany	1901- 1910	44.8	46.6
Italy	1901- 1911	44.2	44.5
Guatemala	1963- 1965	48.3	49.7
India	1966- 1970	48.9	46.2
Germany	1932- 1934	59.9	62.8
England & Wales	1931	58.2	62.4
Italy	1935- 1937	55.3	57.5
France	1928- 1938	55.1	60.3
Tunisia	1960	55.7	63.2
Colombia	1965	58.2	61.7
Norway	1967	71.3	76.9
Denmark	1967	70.7	75.4
Holland	1967	71.2	76.6
England & Wales	1960	68.2	74.1
Italy	1966	68.4	74.2
W Germany	1964- 1965	67.6	73.5
France	1965	67.8	75.0

Sources

S. Preston, *Mortality Patterns in National Populations*, pp. 84-87; S. Preston, N. Keyfitz and R. Schoen, *Causes of Death: Life Tables for National Populations* (New York, 1972), pp. 224-67.

agricultural. A later study of these same areas showed that, unaffected by industrialization, these districts retained their 25 per cent advantage in death rates over the rest of England and Wales until 1901-10. By 1925, though, their lead had been halved. This implies not a deterioration in rural conditions, but rather a quickening in the pace of improvement in urban areas that had been particularly unhealthy in the nineteenth century.⁴ There seems little doubt that urbanization and the flight from the land in the late nineteenth century acted as obstacles to more rapid rates of decline in mortality. By 1950, the urban environment in Britain had been significantly sanitized and offered city dwellers certain advantages in health care unavailable in the countryside.

One of the most striking features of recent research has been that within England, different regions experienced mortality decline as a unity. That is to say, in areas as distinct as Northumberland and Cornwall, all parts of each region showed the same downward trend over time.⁵ Period rates of decline varied depending on how high mortality was in 1870. In general Northern and Western countries had higher death rates than Southern and Eastern countries in England, but within each region, there were no leading sectors. Within London too the downward trend in mortality rates has been remarkably uniform. In other words, boroughs with the highest and lowest death rates early in this century retained the same relative positions in the 1950s.⁶

The process of mortality decline, therefore, had distinctive international, national, and regional characteristics. Concentration on aggregate behaviour, defined geographically, while unavoidable and essential, should not obscure important variations in the mortality experience of different age groups, of the two sexes, of different occupational groups and different social classes. Any attempt to provide even a rough outline of these demographic developments must deal with each in turn.

III Age differentials

Mortality decline was restricted initially to children, adolescents, and young adults. The onset of aggregate decline in death rates in the 1870s can be ascribed almost entirely to improvements in the life chances of people aged 2-35. Twenty years later, older adults

(aged 35-65) began to register significantly lower death rates. Finally, only after the turn of the twentieth century did infant mortality rates and death rates for the elderly begin to drop. It is hardly surprising that the more vulnerable groups at the extremities of age should lag behind in the process of mortality decline.

IV Sex differentials

Male mortality rates exceeded those of females throughout the period 1870-1950.⁷ This sex differential rose significantly in the twentieth century; thus the gap has widened between male and female life expectation at birth and at all other ages. Here the British experience differed from that of countries which industrialized later, where mortality differentials were less favourable to women.⁸ Since male foetal wastage rates and male neonatal mortality rates are apparently always greater than the equivalent female rates, part of the sex differential in mortality rates must be biological in origin. Within genetically determined parameters, though, sex differentials do reflect variations in conditions which affect males and females in different ways or to different degrees.

Women, of course, faced special risks in childbirth, in particular, a virulent haemolytic streptococcal infection classed under the heading of puerperal fever. Case fatality rates for this disease were extremely high and account for the stubborn persistence of maternal mortality rates at about four per 1000 live births until the mid-1930s, two generations after adult death rates began their descent and one generation after infant mortality rates began to drop. Treatment with prontosil, the first of the sulphonamide drugs, from 1936, finally enabled doctors to control this lethal disease.⁹

Even in the 1860s, maternal mortality was not a major component of the pattern of female mortality. Had all such deaths in childbirth been eliminated in 1861, it would have added only six months to the average female life span. The elimination of respiratory tuberculosis, on the other hand, would have added over four years to the average female life span.¹⁰ Pregnancy and labour are, after all, natural rather than pathological events.

In the twentieth century, there were special reasons why at certain ages, the sex differential in mortality rates rose strikingly. The most important case is that of age groups from which the bulk of soldiers who fought in the 1914-18 war were recruited. In that war approximately 750,000 men were killed or died in uniform and over 1,200,000 were wounded or otherwise disabled.¹¹ The ratio of male to female mortality rates at late middle age during the interwar years and after was much greater than the equivalent

ratios for the same age groups at the end of the nineteenth century. For example, the ratio of male to female death rates in 1896-1900 for the 45-64 and 65-75 age groups were 1.29 and 1.24 respectively. In 1948 the differential for these two age groups was 1.55 and 1.77 respectively.¹² Here we see an indication of the way that the Great War helped to produce a 'burnt-out' generation of men who were either disabled during the war or unfit to fight in it. Any study of population change in twentieth-century Europe is incomplete without the recognition of the magnitude of the impact of war on the male cohorts which bore its burdens during the conflict and in its aftermath. Because of improvements in medical care and in chemotherapy as well as a change in military strategy, there was no such shadow effect in Britain as a consequence of the Second World War.

V Occupational and class differentials

When we turn from variations in mortality patterns by age and sex to occupational and class differentials, we enter an area of much greater controversy. One dispute is over the effects of female employment on female mortality rates and on stillbirth and infant mortality rates. Some contemporaries blame working women for infant disease and death.¹³ In more recent times, some scholars unaffected by the ideology of domesticity have found a statistically significant correlation between infant mortality rates and female employment rates.¹⁴ Others have argued that the additional income generated by female labour kept women and children alive.¹⁵ Probably both arguments hold true in different cases, depending on what sort of work women did and how low their family income was without the woman's contribution. It seems likely, though, that for many working-class women, any work, whatever the pathogenic risks associated with it, was better than none at all, since it enabled them to buy essential family food. High female employment rates in both World Wars were consistent with major improvements in infant survival rates.¹⁶

Another question on which it is difficult to provide a clear-cut answer is whether changes in occupational mortality affected the overall pattern of mortality decline. The major problem here is that it is virtually impossible to separate fully the effect of conditions at work from the effect of conditions at home on male and female mortality. There have been attempts, though, to calculate regression equations which are meant to specify rigorously the exact contribution of work and home environment to mortality rates. Thus, in a study of infant mortality in England and Wales in 1928-38, Woolf argued that female employment in manufacturing

industry increased the infant mortality rates by 5.3 deaths per 1000 live births. The increase attributable to overcrowding was 13.8; to low wages, 10.3; and to unemployment, 8.0 per 1000 live births per year. The remainder formed a residual unaffected by adverse social conditions.¹⁷ There were two strong reasons, though, why it is impossible to accept this argument. First, there are technical problems of multivariate analysis of highly intercorrelated statistical series, which vitiate the assumption that each variable has an independent influence on the infant mortality rate.¹⁸ Secondly, even accepting for a moment the statistical basis of the case, the residual of 23 deaths per 1000 live births is not an irreducible minimum and has been halved in the years since the Second World War.

Other doubts about attempts to correlate occupation and mortality are raised by an examination of statistics on the death rates of the wives of men who worked in particular occupations. If work was the decisive factor in variations in mortality patterns, it should be possible to measure, as Percy Stocks argued, 'to what extent the mortality of men engaged in the occupation is affected over and above that of married women who share the general environmental handicaps or disadvantages of the group'. He showed conclusively that in many cases the mortality experience of working-class married women who did not work out of the home was very similar to that of their working husbands. From this he concluded that the direct effects of work are much less significant than the indirect effects of environment on changes in mortality rates.¹⁹

For these reasons it is not possible to sustain the argument that a change in the occupational structure of itself was responsible for the decline of mortality in Britain. There are other grounds too for rejecting this claim. It is well known that coal mining communities have high mortality rates at all ages. The secular decline in the death rate in Britain occurred, though, precisely in the period of maximum expansion of coal mining and related heavy industry.

None of the above is meant to suggest that manual workers registered lower death rates than did non-manual workers or the self-employed. The contrary is, of course, true, but we must look beyond the work experience itself in order to appreciate the demographic implications of social inequality in nineteenth- and twentieth-century Britain. In this context it is necessary to describe variations in mortality by social class.

Since the 1920s Registrars-General have employed a five-tiered taxonomy of social classes. While it is true that this framework is essentially a re-ordering of occupations, and an arbitrary one at

Table 2 *Legitimate Infant Mortality Rates, England and Wales, 1911, 1920-2, 1930-2 and 1939, with Respect to Excess Mortality in Social Class V compared to Social Class I*

	1911	1920-2	1930-2	1939
<i>Neonatal Mortality</i>				
Class V	42.5	36.9	32.5	30.1
Class I	30.2	23.4	21.7	18.9
Excess	12.3	13.5	10.8	11.2
% Excess	40.7	57.7	49.7	59.3
<i>Post-neonatal Mortality</i>				
Class V	110.0	60.1	44.5	30.0
Class I	46.2	15.0	11.0	8.0
Excess	63.8	45.1	33.5	22.0
% Excess	138.1	300.1	304.5	275.0
<i>Mortality at 6-12 Months</i>				
Class V	50.0	24.6	19.4	10.4
Class I	18.3	5.8	3.6	2.3
Excess	31.7	18.8	15.8	8.1
% Excess	173.2	324.1	438.9	352.2
<i>Infant Mortality</i>				
Class V	152.5	97.0	77.0	60.1
Class I	76.4	38.4	32.7	26.9
Excess	76.1	58.6	44.3	33.2
% Excess	99.6	152.6	135.5	123.4

Sources

R. Titmuss, *Birth, Poverty and Wealth* (1943), pp. 44-5; *Registrar-General's Decennial Supplement. England and Wales 1931. Part IIB. Occupational Fertility. 1931 and 1939*, Table Q1, p. 86.

that, into the categories independent (I), intermediate (II), skilled manual (III), semi-skilled manual (IV), and unskilled manual workers (V), these distinctions do have two major attractions. First, they suggest that people who earn a living in similar ways, such as carpenters and electricians, have important similarities in their way of life outside of work. Secondly, they correspond roughly to perceptions of relative social status in what was in 1870 (and remains today) the most class-conscious nation in Europe.

Through the use of this framework, we can see evidence of the demographic disadvantage of being born into a workingman's family in Britain in the period under review. As is clearly illustrated in Table 2, in 1911 the mortality rate of infants born to the families of unskilled workers was double that of infants born to professional men's families. Between 1911 and 1939 the aggregate infant mortality rate for England and Wales dropped from 130 to 51 deaths per 1000 live births per year. Yet over the same period, the advantage of Class I over Class V babies had not only been maintained but actually increased. This was only marginally true in the first month of life, when congenital abnormalities and prematurity cause most deaths. At aged 6-12 months, though, when most babies have been weaned and lose the protection of their mothers' antibodies infectious diseases predominate. At this period of life, the advantage in survival chances which infants of well-to-do families had over those of poorer families increased substantially. The gap narrowed slightly in the 1930s. Still, in the years 1911-39, the most deprived benefited least from improvements in conditions leading to a decline in infant mortality in the nation as a whole. Aggregate demographic improvement was consistent, therefore, with deepening demographic inequality in twentieth-century Britain.²⁰

VI Mortality decline by cause of death

Thanks to the scholarship of Professor Thomas McKeown and his co-workers, we can establish precisely the contribution made by individual causes of death to overall mortality decline. McKeown distinguishes between deaths caused by micro-organisms and others. In the former case, he separates for analysis deaths attributable to micro-organism by vectors of transmission. Between 1848-54 and 1971, airborne diseases were responsible for over two-fifths of the reduction of deaths from all causes. Of all such infections, respiratory tuberculosis was by far the most important, alone accounting for over a sixth of the total mortality decline. Bronchitis, pneumonia, and influenza together accounted for a tenth of the overall decline, and a similar contribution was made by a mixed group of airborne infections comprising measles, scarlet fever and diphtheria, smallpox, and infections of the ear, nose, and throat. In the same time period, there occurred a decline in mortality due to water- or food-borne infections which added a fifth to the overall decline of mortality rates. In this category, half of the decline was registered in deaths due to cholera, diarrhoea, and dysentery, and the other half to non-respiratory tuberculosis, typhoid, and typhus. A third group of diseases due to infections

transmitted in other ways, including convulsions, syphilis, appendicitis, and puerperal fever, accounted for over an eighth of the overall decline.

Conditions not attributable to micro-organisms behaved differently in the period under review. Not all declined. On the one hand heart disease and cancer at all sites have increased so significantly over the past century that we must admit that a real change, rather than merely a shift in diagnostic practice or in the age structure of the population, is involved. On the other hand, deaths due to prematurity, pregnancy, nephritis, and violence have all declined. Together with other more ambiguous causes, such as old age, about a quarter of the total decline in mortality can be attributed to a change in conditions not known to be associated directly with viral or bacterial infection.

In almost all cases, the decline of mortality began well before the introduction of relevant immunization and therapy. For instance, treatment of respiratory tuberculosis by streptomycin began only in 1948, 80 years after the onset of the decline in mortality due to this disease, the 'white plague' of the nineteenth century. In the overall period 1850-1970, streptomycin added only 3 per cent to the total reduction of deaths caused by respiratory tuberculosis. Most other diseases manifested a similar decline decades before specific medical treatment to counteract them was devised and applied. The exceptions are smallpox, for which vaccination and inoculation were available before 1850; puerperal fever, effectively controlled only after the introduction of prontosil in 1936; and appendicitis and related internal disorders, in which case surgical intervention was decisive in the antiseptic age. On balance, though, there is no evidence of synchronism, or of causation, between medical developments and demographic change in this period.²¹

Causes of mortality decline in Britain 1870-1950

Demographers, historians, and doctors have engaged in a number of inconclusive debates about the causes of mortality decline in Britain. Some have stressed nutritional improvements as decisive in the pattern of increasing resistance to infectious disease.²² Others have pointed to medical or para-medical intervention as key components in the gradual lengthening of life expectation.²³ A third group of writers has emphasized the importance to improvements in public health of the growth of state and local authority support and supervision of health and welfare schemes and institutions.²⁴ Few suggest that any one factor is exclusively responsible

for declining death rates,²⁵ but there is no consensus about the appropriate weight to be placed on the contribution of each. In this essay, we can only provide synopses of the literature and a few suggestions as to how medical intervention, health administration, and improvements in standards of living combined to permit the extension of life expectation in the period 1870-1950.

I Medical intervention

The most sustained attack on the argument that medical intervention was responsible for the decline of mortality has come from within the medical profession itself. Early in his medical training, Professor McKeown came to doubt the pretensions of those doctors who believed that most of their efforts made their patients any better. He harboured suspicions that there was 'an inverse relation between the interest of a disease to the doctor and the usefulness of its treatment to the patient'. Indeed, he mused, in a tone which reveals the harsh judgemental quality of his argument,

if I were St Peter, admitting to Heaven on the basis of achievement on earth, I would accept on proof of identity the accident surgeons, the dentists, and, with a few doubts, the obstetricians; all, it should be noted in passing, dealing mainly with healthy people. The rest I would refer to some celestial equivalent of Ellis Island, for close and prolonged inspection of their credentials.²⁶

McKeown has spent thirty years on this inspection, and has concluded that medical intervention has affected life expectation in ways that are either negligible or negative.²⁷ This is largely due to the fact that doctors have acted traditionally on the mistaken assumption that the course of disease depends more on their internal intervention than on those 'external influences and personal behaviour which are the predominant determinants of health'.²⁸ They have distorted their own importance in the process of mortality decline and have misled historians intimidated or dazzled by the mysteries of the medical profession.

McKeown's argument, while a useful rebuttal to the heroic tradition in the writing of medical history, is as much an overstatement as that which it is intended to displace. His case has its strengths. He has established beyond question that the decline of infectious disease in the nineteenth century antedated the isolation of infective agents and the development of therapeutic measures to deal with them. His position is supported by the fact that in the nineteenth century, and to a smaller extent in more recent times, the majority of the population of this country rarely saw a doctor, whose fee, attitude, and class situation frequently placed his care out of their reach.²⁹ Some doctors did, of course, vary their fees according to the ability of their clients to pay and some treated the

poor for nothing. Poor Law inmates also received medical attention.

The main difficulty with McKeown's argument, though, is that he defines medical intervention too narrowly. He concentrates on the instrumental, chemical, and surgical weapons in the medical arsenal and finds them wanting before the appearance of the sulphonamides in the 1930s. There is much truth in this judgment, but medical intervention also encompasses advice on precisely those areas of personal behaviour and environmental control which McKeown sees as the real determinants of health. When a doctor advises a change in diet or the removal of unsanitary debris, he may very well improve the survival chances of his patients. Simply because doctors do not require a medical education to make such statements is no reason to conclude that such indirect medical intervention was unimportant in the process of mortality decline. The same case could be made for the beneficial effects of the work of nurses, midwives, and health visitors, who may lack the doctor's authority, but also may inspire at times less fear and less resistance to the measures they advocate and enforce. The role of medical and para-medical personnel in educating the population about hygiene and nutrition had a greater significance than McKeown is prepared to allow.

Even within McKeown's terms of reference, there were in the period 1870-1950 developments in medical treatment which may not have initiated but reinforced the process of the control and eradication of infectious and non-infectious disease. Most innovations came after 1900, but some appeared earlier. The improvements in surgical technique which followed the introduction of anaesthesia in the 1850s and of antiseptics in the 1870s saved the lives of some patients, although it may have endangered the lives of others able to survive without surgery.³⁰ In this century, important medical advances have been in part a function of what Sir Henry Dale called a 'revolution' in the active links between medicine and the experimental sciences, which transformed the relationship between the laboratories and the wards from aloofness to symbiotic collaboration.³¹

The three major areas in which breakthroughs have been made are in immunotherapy, in chemotherapy, and in the treatment of deficiency diseases. Agents of passive immunization were introduced for diphtheria just before the turn of the century and for tetanus on a large scale during the First World War. At the same time an antidyentery serum was developed and used with effect among men in uniform. Active immunization procedure dates from the pioneering work of Jenner and Pasteur, but was extended

in this century for the treatment of typhoid, cholera, and tuberculosis. These diseases were in decline, as McKeown notes, long before these developments, but few would deny the importance of the role of immunization in preventing a serious recrudescence of these killer diseases during the political and economic upheavals of this century.

Chemotherapy, too, provided powerful checks against the reversal of gains made in survival rates since 1900. The discovery by Ehrlich and Shiga of the benzidine dye trypan-red in 1903 led to further research which yielded a remedy for trypanosomal sleeping-sickness. Ehrlich was responsible as well for the preparation of salvarsan, an arsenic compound effective in the treatment of syphilis. In the interwar years German scientists isolated a chemical anti-malarial compound, the use of which during the Second World War was crucial due to the occupation by Japan of areas of quinine supply. Since 1936, the use of the sulphonamides and penicillin have eradicated certain infectious diseases, and other drugs like streptomycin and aureomycin have proved effective against infections stubbornly resistant to sulphonylimide derivatives or penicillin.

Our knowledge of the nature of deficiency diseases has grown enormously in this century, and so has the armoury of drugs to deal with them. Treatment of some hormonal deficiencies had begun before 1900, but the major breakthrough was undoubtedly the isolation of insulin by Banting and Best in 1921. In the years which have followed many hormonal preparations have come into medical use in previously untreatable disorders. Similarly, since Mellanby's classic study of rickets, published in 1919, a whole field of vitamin deficiency research and treatment has opened up. As a result we have transformed our ideas about what constitutes an adequate diet.³² If, as we shall suggest below, nutritional improvements were decisive in the process of mortality decline, then on these grounds too medical research and treatment cannot be dismissed as largely irrelevant to the control of disease and its ravages.

II Health administration

One hundred years separates the passage of the Public Health Act of 1848, and the birth of the National Health Service in 1948. In the intervening period to what extent did local or central administrative action contribute to the process of mortality decline? A full answer to this question is beyond the scope of this essay, but some elements of a reply are clear.

The first point that needs to be made is that the justly famous

Act of 1848 was an emasculated version of an earlier bill introduced the previous year, opposition to the comprehensiveness of which had led to its demise. The General Board of Health which emerged in 1848 had no compulsory powers and left to local authorities the real work of enforcement of sanitary reform. Without a Minister responsible for its actions and without a permanent salaried inspectorate, the Board was effectively impotent, both politically and administratively. In 1854 and 1855 these deficiencies were recognized and to some extent remedied in legislation. The most important aspect of the 1855 Act was the provision for the appointment of a government Medical Officer. The first man to hold this post was John Simon, who had been a successful Medical Officer of Health to the City of London in 1848-54 and who became the towering figure in sanitary reform and public health in the second half of the nineteenth century. In his long and distinguished career, he helped more than any other man to establish the crucial role of permanent medical advice in central government. In twenty years the Board of Health was transformed into the medical department of the Local Government Board and administered, in pursuance of the Acts of 1866 and 1875, a common and comprehensive sanitary code unrivalled in Europe.³³ The real work of sanitary improvement still had to be done by local authorities, which ensured the widest possible variation in the effectiveness of steps taken to provide clean water, regular scavenging, and reliable systems of sewerage disposal.

There is little doubt, nevertheless, that the decline of mortality due to water-borne infections is attributable to publicly enacted improvements in sanitation. Still it was not until the interwar years that water-carriage systems of sewerage disposal displaced privy middens or other conservancy systems in certain parts of the country.³⁴ Under such conditions it is hardly surprising that infant diarrhoea, transmitted by flies which feed on faeces, remained a scourge of infant health until the second decade of this century. In this context, steps taken to prevent the adulteration of food and protect the purity of milk helped check the spread of food-borne infections such as tuberculosis contracted from contaminated cow's milk.³⁵

In other ways, too, the development of health administration helped ensure that the question of disease and the conditions which bred it were permanently in the political arena. In 1837 Dr William Farr was appointed Compiler of Statistics at the new General Register Office, and over the next half century, his annual reports, decennial supplements, and occasional studies gave vital statistics an importance in debates on public health which they

have never lost. The foundations laid by Farr have been the basis of the work of many illustrious successors as Registrar-General in helping to educate both Parliament and the public as to the nature of endemic and epidemic diseases and the means necessary to combat them.³⁶

In this century administrative developments have advanced from the domain of environmental hygiene to that of personal examination and treatment. The exposure of ill-health among recruits for the British Army during the Boer War helped prepare the way for the provision of school meals for necessitous children in 1906 and for the compulsory medical examination of school children the following year. In 1911 the National Insurance Act provided insurance against sickness or disablement for workers in certain precarious trades and for a 30-shilling maternity benefit for their wives. In the interwar years this act was extended to cover virtually all occupied workers. Its original provisions also covered treatment of insured workers who had contracted tuberculosis and the construction of sanatoria for them. Insurance commissioners were also empowered to support research into tuberculosis and other diseases, which work was carried on after 1920 under the aegis of the Medical Research Council. During the First World War the Local Government Board also helped establish a free service for the diagnosis and treatment of venereal disease and provided funds to local authorities committed to the establishment of infant and maternal welfare centres. In the latter context, acts regulating the education and registration of midwives were passed in 1902 and 1936 which helped improve the management of delivery.

The establishment of the Ministry of Health after the First World War and the emergence of the National Health Service out of the Emergency Medical Services of the Second World War helped unify these diverse strands of work relating to public health. By 1948 the state was finally in a position to plan the development of hospital provision, to extend health centres, and to provide domiciliary visits and help where required. What Aneurin Bevan unveiled during the third Labour government of 1945-51 was an impressive edifice of which any nation would be proud. Still, it is likely that health administration, like medical intervention, played by and large a permissive rather than a decisive role in the decline of mortality over the past century. For, whatever Simon, Farr or any of their distinguished successors were able to accomplish, death rates due to infectious disease would not have fallen had there not been a major improvement in nutrition over the last one hundred years.

III Nutrition and standards of living

Immunization, chemotherapy, and the treatment of deficiency diseases reduced levels of exposure to certain diseases and lowered case-fatality rates in others. The purification of water and food supplies, the provision of safe waste disposal, the paving of roads, and the removal of nuisances and derelict housing helped check the spread of other diseases endemic in the mid-nineteenth century. Medical inspection and treatment of select populations at state expense helped identify people who needed care and made it easier to isolate those who suffered from communicable diseases. All these developments contributed to the decline of mortality in Britain since 1870.

Changes in medical care and health administration, though, were necessary rather than sufficient causes of improvements in life expectation. The decisive variable was nutrition. Whatever the movement of the standard of living of the working population in the crucible years of the industrial revolution from 1780 and 1840, there is no doubt that in the second half of the nineteenth century there occurred a sustained and significant rise in real wages. Working-class children born in the 1850s and 1860s were the first unambiguously to receive some of the fruits of economic growth. As they grew into adolescence and early adulthood, their death rates began to decline and thereby initiated the overall trend. The same generation which married in the 1880s and 1890s were more likely by the turn of the century to give birth to infants with an improved chance of surviving the first year of life. By then fertility rates had fallen to an extent that made it possible to distribute more food to each member of smaller completed families. In this century, the secular improvement in standards of living and in nutritional levels has continued despite shortages imposed by two world wars and chronic unemployment in the interwar period.

Better nutrition meant increased resistance to viral and bacterial infection. Sanitary and medical intervention helped reduce exposure to infection, but of greater importance in the process of mortality decline was the enhancement of recovery rates from endemic diseases. Unfortunately we do not have relevant morbidity and case-fatality statistics and, therefore, cannot prove the argument beyond question. The overwhelming evidence in studies of the synergistic relationship between nutrition and infectious disease³⁷ leaves little doubt, though, that a sustained decline in mortality rates such as Britain experienced before the 1930s was impossible without major improvements in the quantity and quality of per capita food intake. Of crucial importance here was

the opening up of the primary producing areas, together with greater efficiency in retailing which brought about a dramatic fall the price of food. And, after all it was on food that the working classes spent 60 per cent of their income.

These gains were particularly important in reducing the death rate due to airborne infections, which were responsible for more than 40 per cent of overall mortality decline. Overcrowding and other inadequacies of housing no doubt help spread tuberculosis, bronchitis, pneumonia, influenza, whooping cough and scarlet fever, but better nutrition made it possible for more people to recover from these endemic diseases of childhood and later years. The pattern of tuberculosis mortality shows the significance of nutritional change perhaps better than that of other diseases. In Denmark during the First World War, tuberculosis mortality rose until 1917 when the German Navy stopped exports of home-grown produce to Britain and the Allies. A domestic increase in consumption of agricultural goods led to an immediate sharp fall in the death rate due to tuberculosis.³⁸ In Britain, the death rate from respiratory tuberculosis increased during both world wars and probably reflected the inevitable dislocation of food supplies which followed the outbreak of hostilities. It is clear, though, that the increase in wartime mortality was due to the deaths of those who had already been afflicted with the disease in the pre-war period. These people were particularly vulnerable to relapses in their condition during unsettled times.³⁹ The fact that there were relatively few new active cases of the disease shows though, that after the administrative tangles of the first months of war were sorted out, pre-war nutritional levels were restored and for many of the poorest sections of society, actually improved substantially.⁴⁰ The trend in mortality due to other endemic infections, such as measles, further helps establish the centrality of improved nutrition even during wartime in the process of mortality decline.⁴¹

Evidence of improved nutrition may also be gathered indirectly from studies of the trend towards earlier physical maturation and towards the long-term increase in age-specific heights and weights of schoolchildren.⁴² For example, over the first half of this century, the height of Glasgow five-year olds has increased by about two inches, that of nine-year-olds by three inches, and that of eleven-year-olds by four inches.⁴³ The cumulative effect of these gains meant that even the severe hardship caused by the world economic crisis of 1929-34 did not reverse the downward trend of mortality rates in the interwar period.⁴⁴ Just as the consequences of chronic malnutrition last throughout the lifespan of those who suffer it, so the shadow effect of improvements in nutrition extend well beyond

their inception. In this respect our generation and our children's generation are the beneficiaries of cumulative advances in nutritional levels, which, together with sanitary improvements in the nineteenth-century and medical developments in the twentieth century, have reduced the suffering inflicted by disease and the mortality it brings in its wake.

Notes

All works are published in London unless otherwise noted.

¹ W. P. D. Logan, 'Mortality in England and Wales from 1848 to 1947', *Population Studies* (1950), p. 169.

² S. Preston, N. Keyfitz and R. Schoen, *Causes of Death* (New York, 1972), pp. 225, 261.

³ G. Stolnitz, 'A century of international mortality trends: I', *Pop. Stud.* (1956), pp. 27-33. J.-C. Chasteland, 'Evolution générale de la mortalité en Europe occidentale de 1900 à 1950', *Population* (1964). S. Preston, *Mortality Patterns in National Populations* (New York, 1975), pp. 84-7.

⁴ E. Lewis-Fanning, 'A survey of the mortality in Dr Farr's 63 healthy districts of England and Wales during the period 1851-1925', *Journal of Hygiene* (1930), pp. 121-53.

⁵ B. Benson, *Mortality Patterns in the North of England 1851-1900*, unpub. PhD., Johns Hopkins University, 1980. S. Johannsen, *The Demographic Transition in Cornwall, 1840-1910*, unpub. PhD., University of California at Berkeley, 1974.

⁶ W. J. Martin, 'Vital statistics of the County of London in the years 1901 to 1951', *British Journal of Preventive and Social Medicine* (1955), p. 134.

⁷ R. Ll. Gwilt, 'Mortality in the past hundred years', *Transactions of the Faculty of Actuaries* (1956), p. 77.

⁸ G. Stolnitz, 'A century of international mortality trends: II', *Pop. Stud.* (1957), p. 31.

⁹ J. M. Winter, 'Infant mortality, maternal mortality, and public health in Britain in the 1930s', *Journal of European Economic History* (1979), p. 458.

¹⁰ Preston et al. *Causes of Death*, p. 227.

¹¹ J. M. Winter, 'Some aspects of the demographic consequences of the First World War in Britain', *Pop. Stud.* (1976), pp. 539-52.

¹² P. Stocks, 'Fifty years of progress as shown by vital statistics', *British Medical Journal* (1950), i, p. 54.

¹³ A. Davin, 'Imperialism and motherhood', *History Workshop* (1978), pp. 9-65.

¹⁴ B. Woolf, 'Studies on infant mortality. Part II. Social aetiology of stillbirths and infant deaths in county boroughs of England and Wales', *Br. Jnl. Soc. Med.* (1974), pp. 119-24.

- ¹⁵ C. Dyhouse, 'Working class mothers and infant mortality in Britain 1895-1914', unpublished paper.
- ¹⁶ J. M. Winter, 'The impact of the First World War on civilian health in Britain', *Economic History Review* (1977), pp. 492-6. B. Woolf, 'Social conditions and infant mortality', *Mother and Child* (1944), p. 42.
- ¹⁷ B. Woolf, 'Social conditions', p. 42.
- ¹⁸ E. Buckatzsch, 'The Influence of social conditions on mortality rates', *Pop. Stud.* (1947), pp. 229-48.
- ¹⁹ P. Stocks, 'The effects of occupation and its accompanying environment on mortality', *Journal of the Royal Statistical Society* (1938), pp. 670-707.
- ²⁰ R. Titmuss, *Birth, Poverty and Wealth* (1943), pp. 44-5.
- ²¹ T. McKeown, *The Role of Medicine* (1976), chs 3-6.
- ²² McKeown, *The Modern Rise of Population* (1976).
- ²³ 'Fifty years of medicine', *Br. Med. Jnl* (1950), i, p. 61.
- ²⁴ W. Leslie MacKenzie, *Scottish Mothers and Children* (Dunfermline, 1917). F. B. Smith, *The People's Health* (1979).
- ²⁵ McKeown comes close at times to advancing a monocausal view, on which see below.
- ²⁶ McKeown, *The Role of Medicine*, p. x.
- ²⁷ McKeown, *The Modern Rise of Population*.
- ²⁸ McKeown, *The Role of Medicine*, p. xiv.
- ²⁹ On the chequered history of nineteenth-century medical care, see Smith, *The People's Health*.
- ³⁰ C. Singer, 'Medical progress from 1850 to 1950', *Br. Med. Jnl* (1950), i, pp 57-60.
- ³¹ H. Dale, 'Advances in medicinal therapeutics', *Br. Med. Jnl* (1950), i, p. 1. The following paragraphs are drawn from this useful summary.
- ³² Dale, 'Advances', pp. 3-7.
- ³³ R. Lambert, *Sir John Simon 1816-1904* (1963), chs 11-14, 25.
- ³⁴ I. Buchanan, 'Infant feeding, sanitation, and diarrhoea in colliery communities, 1880-1911', in D. Oddy and D. Miller (eds), *The Making of the Modern British Diet*, vol. III, in press.
- ³⁵ M. Beaver, 'Population, infant mortality and milk', *Pop. Stud.* (1973), pp. 243-54.
- ³⁶ A. Newsholme, 'The measurement of progress in public health', *Economica* (1923), pp. 186-202.
- ³⁷ N. Scrimshaw, C. Taylor, and J. Gordon, 'Interactions of nutrition and infection', *American Journal of the Medical Sciences* (1959), pp. 363-403. P. Newberne and G. Williams, 'Nutritional influences on the course of infection', in H. Dunlop and H. Moon (eds), *Resistance to Infectious Disease* (Saskatoon, 1970). L. Mata and R. Wyatt, 'Host resistance to infection', *American Journal of Clinical Nutrition* (1971), pp. 976-86. W. Akroyd, 'Nutri-

tion and mortality in infancy', *Am Jnl. Clin. Nutr.* (1971), pp. 480-87. W. Page Faulk, L. Mata, and G. Edsall, 'Effects of malnutrition on the immune response in humans: a review', *Tropical Diseases Bulletin* (1975), pp. 89-103.

³⁸ R. and J. Dubos, *The White Plague. Tuberculosis, Man, and Society* (1953), p. 41.

³⁹ L. Cobbett, 'The Decline of tuberculosis and the increase in its mortality during the war', *Jnl. Hyg.* (1930), pp. 79-103.

⁴⁰ Winter, 'Civilian Health'.

⁴¹ J. Brincker, 'Measles mortality', *Journal of the Royal Sanitary Institute* (1932-33), p. 118.

⁴² J. Tanner, *Growth at Adolescence* (Oxford, 1962).

⁴³ J. Craig, 'The heights of Glasgow boys: secular and social influences', *Human Biology* (1963), p. 524.

⁴⁴ J. M. Winter, 'Infant mortality'.

Further reading

T. McKeown, *The Modern Rise of Population*, Edward Arnold, 1976. A controversial attack on the view that doctors contributed significantly to the conquest of infectious disease. The author establishes his case effectively, his argument for nutrition as the key element stands by elimination of all other variables. The book is an extreme statement, which must be treated with care.

B. Abel-Smith, *The Hospitals in England and Wales 1800-1948*, Heinemann 1964. The standard institutional history, well-documented and expressed. It provides the outline history of health administration of the period.

F. B. Smith, *The People's Health 1800-1910*, Croom Helm, 1977. A detailed account of popular medicine and some of the appalling consequences of it in the nineteenth century. The author relies heavily on medical journals, and only occasionally comments on demographic themes.

R. Titmuss, *Birth, Poverty, and Wealth*, Hamish Hamilton, 1943. A powerful argument that demographic inequality persisted in England and Wales despite aggregate gains in survival rates, over the period 1911-1931. The book was written before data for the 1930s were available, but it has influenced interpretations of the entire interwar period and after.

M. Beaver, 'Population, infant mortality and milk', *Population Studies* 1973, pp. 243-54. A sweeping survey of the impact of improvements in the purity and aggregate supply of milk on mortality trends since the eighteenth century. While convincing in reference to infant diarrhoea, this hypothesis is too monocausal to be completely persuasive.

R. J. and J. P. Dubos, *The White Plague. Tuberculosis, Man and Society* Gollancz, 1953. An elegant, but brief account of tuberculosis as a constant companion in pre-twentieth-century history.

J. C. Drummond and A. Wilbraham, *The Englishman's Food*, Cape, 1957. The standard account of nutrition. Mostly reliable, but needs to be read alongside more recent accounts of agriculture and public health since 1800.

W. P. D. Logan, 'Mortality in England and Wales from 1848 to 1947', *Population Studies* 1950, pp. 132-78. The best survey of the dimensions and components of mortality decline, but of less help on the causes of improvements in life expectation.

J. M. Winter, 'The Impact of the First World War on civilian health in Britain', *Economic History Review*, 1977, pp. 487-507. An interpretation of the effect of the Great War on mortality levels which emphasizes the unintentional but beneficial effects of the working of the war economy on working-class living standards and nutrition.

G. Stolnitz, 'A century of international mortality trends I-II', *Population Studies* 1955, pp. 24-55; 1956, pp. 17-42. A thorough and meticulous survey of the context within which mortality decline in Britain must be placed.

The health of the people

D.J. ODDY

Any study of the health of the population from late-Victorian times onwards, however brief or limited in scope, must first overcome a definitional and methodological problem regarding the use of the concept of health. With the lack of a consensus among contemporary medical authorities about the meaning of health, medical historians face a dilemma when seeking evidence for health in the past. This they solve by inverting normal scientific methods which assume that there will be an attempt to describe, measure, and define the phenomenon investigated. The nature of the available evidence is such that positive data on health and normal physical development are scarce, while evidence of mortality and morbidity can be found in abundance from a variety of sources. Studies of health tend to rationalize the use of what evidence is available: ill-health becomes the reciprocal of health, with the result that the emphasis is overwhelmingly on bodily disorders. Such studies become works of historical epidemiology rather than of human health and physical development. What is missing is a description of healthy late-Victorian *Homo sapiens*. The writings of the later Victorians reveal that they had some concept of such an animal but among the Social Darwinists it was commoner to describe deviation from the model than the model itself, particularly as they were concerned to provide evidence that a process of physical degeneration had set in with the expansion of urban industrial society in the nineteenth century. The theory of urban degeneration¹ meant that there was much concern with 'the condition of the rural population as a reservoir of national strength'.² Thus James Cantlie's *Degeneration amongst Londoners* (1885) provides a lurid description of the process of physical degeneration by the mid-1880s. His third-generation Londoner was

height 5ft 1in.; aged 21, chest measurement 28in.; his head measured across from tip of ear to tip of ear 11in. (1½in. below the average). His aspect is pale, waxy: he is very narrow between the eyes and with a decided squint!³

Similarly Freeman-Williams (1890) saw townsmen as 'neurotic, dyspeptic, pale and undersized in adult state'⁴ requiring constant injections of 'fresh blood' from healthier rural populations. Sensationalism accelerated after the turn of the century into an outcry about 'National Deterioration' in 1904, and culminated in the formation of the Eugenics Society in 1907.

The concept of health as used in late-Victorian society will not be understood completely unless three essential ideas are grasped. First, with the evidence of poverty, ignorance and disease being fairly widespread, the concept of health to most observers could only mean the absence of ill-health. Indeed, the absence of ill-health remained unchanged as a residual definition of health until, in 1948, the World Health Organization introduced the new concept that health was not only the absence of disease or infirmity but also a state of physical, mental, and social well-being.⁵ Second, the concept of degeneration came primarily from an association of ideas rather than any scientific theory. For an understanding of how health was discussed, one may leave aside the Mendelian theory of inheritance until some time after 1900, just as one may discount Darwin's theory of evolution. Most Victorian middle-class commentators, whether medically-qualified or not, associated towns with public health problems, overcrowded houses, deficient sanitation, casual work, low incomes, and epidemic disease. As population grew, so these problems were more evident, and as more people lived in towns, so by association it seemed likely that a greater proportion of the population was in ill-health and the pool of 'national strength' in the countryside was becoming smaller. Third, it was only towards the end of the nineteenth century that health began to be thought of as a 'normal' state. It might almost be said that in the 1880s and 1890s people began to discover 'good' health in the way that was to become more obvious with the growth of outdoor leisure activities in the twentieth century. Samuel Butler's *Erewhon* (1872) is probably the first evidence of reaction against the 'romantic glorification of suffering' which Victorian sentimentalism enjoyed.⁶ Until then, *La Traviata* (or *La Dame aux Camelias*) and *La Bohème* glorified tubercular heroines; a number of Edgar Allan Poe's heroines were similarly infected; earlier in the nineteenth century, romantics such as Byron yearned for consumption; in O. Henry's *The Last Leaf*, the heroine dies of pneumonia. Sentimentalism continued almost until the end of the century, although Ibsen began a reaction against venereal disease

Table 1 Standardized mean stature of boys and girls, 1880-1921

1a: Boys by age				1b: Boys by income group		
Date	Ages			(at age 13)		
	5	10	13	Income group		
	(ins.)	(ins.)	(ins.)	upper	middle	lower
				(ins.)	(ins.)	(ins.)
1880	39.7	50.7	55.8	57.4	55.8	53.2
1905a	40.9	50.3	55.4	56.8	56.1	54.7
1905b	—	51.0	56.2	57.8	56.5	55.2
1908	41.1	—	57.1	58.6	57.1	54.9
1910	40.4	50.8	56.1	—	—	—
1921	40.9	49.9	54.7	56.9	53.9	53.9

1c: Girls by age				1d: Girls by income group		
Date	Ages			(at age 13)		
	5	10	13	Income group		
	(ins.)	(ins.)	(ins.)	upper	middle	lower
				(ins.)	(ins.)	(ins.)
1880	39.8	49.0	56.2	58.5	56.2	53.0
1905a	40.8	49.9	56.1	57.6	56.2	55.6
1905b	—	50.7	57.3	58.1	57.4	56.6
1908	41.1	—	57.4	—	57.4	55.9
1910	40.2	50.9	56.7	—	—	—
1921	40.4	49.6	55.9	57.8	54.7	55.2

Source: *British Medical Journal* (1953), 897-902. 1905a = Glasgow, 1905b = London

with *Ghosts* (1881): attention was focused on the 'social evil' by Eugene Brieux's *Damaged Goods* (1901). Thomas Mann's *Magic Mountain* (1926) became the 'swan song' (in Mann's own words) of sentimental attitudes to disease for the movement towards Butler's Utopia, where illness was a crime, was well under way by the turn of the century. After all, the glorification in a tragic end to life lost its appeal once fate had been replaced by the germ theory of disease.⁷

There is some evidence that Victorian society attempted to define the norms of physical development in a rather more scientific manner than the views of the Social Darwinists suggest. The British Association for the Advancement of Science carried out an anthropometric survey between 1878 and 1883, and there are a series of papers in the *Lancet* from the 1870s to 1914 which discuss the physical development of schoolchildren. Some evidence from the period was summarized by Dr E. M. B. Clements in the *British*

Table 2: United Kingdom food supplies and nutrient availability

2a: Food supply estimates expressed as weekly per capita food consumption.

<i>Date</i>	<i>Bread</i> (lb)	<i>Potatoes</i> (lb)	<i>Sugar</i> (oz)	<i>Fats</i> (oz)	<i>Meat</i> (lb)	<i>Milk</i> (pt)
1889-1903	6.7	3.2	22.9	21.6	2.2	3.3
1904-1913	6.9	3.6	23.8	22.6	2.2	4.1

2b: Daily nutrient content available per capita based on food supply estimates.

<i>Date</i>	<i>Energy</i> <i>Value</i> (kcal)	<i>Protein</i> (g)	<i>Fat</i> (g)	<i>Carbo-</i> <i>hydrate</i> (g)	<i>Iron</i> (mg)	<i>Calcium</i> (g)
1889-1903	2983	73	143	363	11.2	0.47
1904-1913	3171	77	154	381	11.8	0.54

Table 3: Working-class dietary patterns 1887-1913

3a: Weekly food consumption of working-class families shown by dietary surveys

<i>Date</i>	<i>Bread</i> (lb)	<i>Potatoes</i> (lb)	<i>Sugar</i> (oz)	<i>Fats</i> (oz)	<i>Meat</i> (lb)	<i>Milk</i> (pt)
1887-1901	6.7	1.6	14.4	5.2	1.4	1.4
1902-1913	6.6	3.0	15.5	7.6	1.2	1.8

3b: Daily nutrient intake per capita of working-class families shown by dietary surveys.

<i>Date</i>	<i>Energy</i> <i>value</i> (kcal)	<i>Protein</i> (g)	<i>Fat</i> (g)	<i>Carbo-</i> <i>hydrate</i> (g)	<i>Iron</i> (mg)	<i>Calcium</i> (g)
1887-1901	2099	57	58	336	10.0	0.31
1902-1913	2398	71	65	375	12.1	0.46

*Medical Journal.*⁸The evidence in Table 1 demonstrates that Victorian children were smaller than children today and that there was a clearly marked social gradient of 2-4ins in height between 'upper' and 'lower' income groups. No attempt will be made to extend this comparison back over earlier periods of the nineteenth century, although in passing it might be added that what little data there are, whether between the 1830s and 1880s or from the 1880s

to 1914, show no trend of a secular increase in heights or weights.⁹

There is nothing particularly surprising about this conclusion. The principal determinants of health are nutritional status and quality of environment. Evidence from the later part of the nineteenth century and the early years of the twentieth century suggests that it is difficult to translate the advance in real wages during the last quarter of the nineteenth century into improvements in nutrition or urban environment. Patterns of food consumption were fairly stable as food supplies kept pace with population growth as shown in Table 2, but there was little basis for the claim once made by H. L. Beales that increased amounts of animal products entered the diet during this period of rising real wages.¹⁰ In fact working-class diets continued to be heavily dependent on starchy sources of energy and an analysis of family budgets between 1887 and 1913 suggests that increases in consumption of animal products were limited to very small amounts of dairy products — mainly fats and milk — as shown in Table 3. Even had H. L. Beales been right, there is enough evidence for the period before 1914 to show that limitations of nutrition and environment were still major determinants of health. Birth, infancy, early childhood, and maternity remained crises to be overcome. One example is the lack of any significant reduction in infant mortality in the late nineteenth century; another is the fact that deaths in early childhood (0-5 years) were still almost one-third of all deaths as late as 1908: both led to detailed public inquiries. Mortality figures also showed wide variations between regions, between town and country, and between social classes. As late as 1911, infant mortality rates in the upper and middle classes were 77 per 1000 compared with 113 per 1000 for skilled labour, and 152 per 1000 among unskilled occupations,¹¹ figures which were in part a reflection of the physical environment but which also raised questions in the minds of contemporaries about nutrition and family care. In consequence, between 1908 and 1914 much attention was given to the employment of married women and the effect that this had upon nutrition through the adequacy of meals, feeding practices, and the level of cleanliness and care in the home. However, since mortality rates in early childhood (0-5 years) for 1911-14 exceeded 200 per 1000 not only in a number of towns in the textile districts of the north-west where married women's employment was common, but also in areas such as the north-east, the midlands, and south Wales where married women's employment was low, there was no obvious correlation. Similarly, although married women's employment was blamed for a decline in breast feeding, the evidence for the decline was limited and a contrary view was offered in the

Second Report on Infant Mortality by figures which suggested that roughly two-thirds of the children in several English towns were still breast fed at the age of six months.¹² The great difficulty is to disentangle all the various influences at work on health. While most patent infant foods of the day provided poorly-balanced diets, the difficulty of obtaining adequate supplies of cow's milk free from bovine tuberculosis remained a major problem. The middle classes turned to the use of patent infant foods in these circumstances and yet the infant mortality in their families fell. 'Domestic discomfort' among the poorer classes, whether in terms of poor hygiene, overcrowding, lack of attention at confinements, or even excessive alcoholism (which showed a close correlation with high infant mortality areas), offset any retention of breast-feeding practices. Even more intangible in effects on health was the question of lack of care and parental concern which almost every investigation before 1914 discussed at length in terms of the 'fecklessness' or 'ignorance' of working-class patterns of life. Although these discussions were obviously coloured by middle-class attitudes, there were areas where limited house room, lack of internal water supply, poor sanitation and cooking facilities, when coupled with the stoic acceptance of discomfort or hardship¹³, were inimical to the healthy development of children.

It was only in the last few years before 1914 that the 1907 Education (Medical Inspections) Act¹⁴ began to yield information about the health of children of board school age. Dr George Newman's first report as Chief Medical Officer, in 1910, produced a view of schoolchildren's state of health which R. H. Tawney saw as 'likely to be read in the future with the sensation aroused to-day by a study of the reports of the early Commissions on Child Labour in Factories and Mines'.¹⁵

Speaking generally, it may be said that out of the six million children registered on the books of the Public Elementary Schools of England and Wales, about 10 per cent suffer from a serious defect in vision, from 3 to 5 per cent suffer from defective hearing, 1 to 3 per cent have suppurating ears, 6 to 8 per cent have adenoids or enlarged tonsils of sufficient degree to obstruct the nose or throat, and thus to require surgical treatment, about 40 per cent suffer from extensive and injurious decay of the teeth, about 30 to 40 per cent have unclean heads or bodies, about 1 per cent suffer from ringworm, 1 per cent from tuberculosis in readily recognizable form, from 1 to 2 per cent are afflicted with heart disease and a considerable percentage of children are suffering from a greater or lesser degree of malnutrition.

In the face of such obvious problems, Newman's lack of assessment of children's physical development is understandable, but a more direct discussion of growth was made by Arthur Greenwood (1913), who saw town children as both smaller and lighter than those of rural areas.¹⁶ Such limitations on growth resulted prin-

cipally from under-nutrition, a topic which had begun to attract comment from the 1880s onwards. In board schools, what began as a discussion of 'over-pressure' on pupils came to be recognized with greater accuracy as 'under-feeding' as early as 1884.¹⁷ There was little disagreement by contemporaries with the Physical Deterioration Committee's conclusion in 1904 that 'a large number of children habitually attend school ill-fed'.¹⁸ Provision of food in schools was not widespread and lay largely in the hands of voluntary bodies providing cocoa, breakfasts, and lunches. The Education (Provision of Meals) Act¹⁹ did not extend this provision significantly, being intended to do no more than regularize this type of expenditure on the rates but, as rate expenditure was to be limited to school terms alone, it provided the opportunity for Dr Ralph Crowley to demonstrate the value of school meals by recording weight losses among children in Bradford during the holidays when school meals ceased.²⁰ Mr J. A. Pease, President of the Board of Education, admitted in the House of Commons in 1913 that 10 per cent of schoolchildren were suffering from defective nutrition; evidence from some English counties made this sound somewhat optimistic, a view which was confirmed by the first medical inspections in Scotland.²¹ There seems little doubt that under these conditions physical development was slower, growth continuing perhaps until the mid-twenties before maturity was reached. Children who left school for manual employment were liable to have their physical development further restricted. In textile towns, where 'half-time' employment began at 12 years of age, there were distinct effects on children's physique, as explained by a factory inspector:

Employment of this character especially if carried on in high temperatures, rarely fosters growth or development; the stunted child elongates slightly in time, but remains very thin, loses colour, the muscles remain small, especially those of the upper limbs, the legs are inclined to become bowed, more particularly if heavy weights have to be habitually carried, the arch of the foot flatens (sic) and the teeth decay rapidly.²²

An additional effect on girls was that 'at an age when girls brought up under wholesome conditions usually possess a luxuriant growth of hair, these factory girls have a scanty crop which, when tied back, is simply a wisp or "rat's tail"', evidence which suggests a shortage of animal foods in the diet and possible deficiencies in both protein and vitamins. Other similar comments: 'dry, thin, and short or wispy'²³; 'hard, dry, "staring" hair'²⁴; and the 'harshness, roughness of the skin'²⁵ confirm the likelihood that deficient nutrition was affecting health and physical development.

These distortions of physical development were not so readily

apparent in adulthood. Before 1914 there was no monitoring of adult health: the state, in A. J. P. Taylor's words, 'left the adult citizen alone'.²⁶ Concern about male physical development rested on defence needs and represented the fears of both Conservative and Liberal Imperialists that an urban society could not provide the type of manpower required to administer, police, and defend the enormous extent of the Empire. Army recruitment had been under discussion since 1897, but the increased demand for men during the South African War led Sir Frederick Maurice to give a somewhat sensational account of recruitment experiences which implied that 37.6 per cent of recruits had been found unfit for military service or subsequently invalidated out. The Inspector-General of Army Recruiting's report for 1902 expressed this concern in Social Darwinist terms: 'The one subject which causes anxiety in the future as regards recruiting is the gradual deterioration of the physique of the working classes from whom the bulk of the recruits must always be drawn.' It was this hypothesis which the Physical Deterioration Committee began to discuss and from which the Army had to make a rapid tactical withdrawal, Sir William Taylor, the Director-General of the Army Medical Service, denying that any 'gradual deterioration' had been observed and rejecting the Inspector-General of Recruiting's conclusions as unjustified.²⁷ The Physical Deterioration Committee concluded, as was to be expected, that there was a lack of statistical evidence on which to base a proper study of health and physique, noting somewhat lamely that 'the impressions gathered from the great majority of the witnesses examined do not support the belief that there is any general progressive physical deterioration'.²⁸ In the years which followed, the physical condition of the population became the subject of a series of inquiries which assembled a mass of evidence. Besides the extensive study of infant mortality and the health of schoolchildren already referred to, there were other investigations into the diseases of tuberculosis and venereal disease and into the feeble-minded. Brought into juxtaposition, some aspects of these inquiries postulated enormous health problems: among the working classes, 10 per cent of men and 5 per cent of women were said to be suffering from venereal disease; 90 per cent of the population surviving beyond the age of 30 years were said to have been infected by tuberculosis at some time in their life.²⁹ However, none of these inquiries dealt with normal healthy development; not until the First World War was there need or attempt to describe normal physical development. To provide a standard for the National Service Medical Boards in 1917, Professor Arthur Keith took a sample of 1000 middle-class

students at Cambridge as a norm. Of this group, 70 per cent were above 'full stature' (which, in terms of height, he set at 5ft 8ins.) and were placed in Grade I by Keith. His percentages allocated to lower grades were: Grade II, 20 per cent; Grade III, 7.5 per cent; Grade IV, 2.5 per cent. By contrast, in 1917-18 the Medical Boards experienced physical development significantly below Keith's standard in many areas. Even in the 18-year-old cohort born in 1900, 65 per cent of whom were placed in Grade I, the effects of restricted growth were to be found. The average height of nearly 16,000 young men examined in the West Midlands was only 5ft 5½ins. and their average weight was only 118lbs. A group of similar stature in Liverpool had an average chest measurement of under 31ins. It should be remembered that the Medical Boards had no minimum standards below which men were rejected, hence the formation of 'bantam' battalions of men under 5ft in height, though men below 5ft 0ins. in height or less than 100lbs in weight or with a chest measurement smaller than 32ins were 'carefully scrutinized'.³⁰ The aggregate gradings by the Medical Boards are well known: only 36 per cent were placed in Grade I, which meant that 'only one in every three had attained the full normal standard of health and strength and was judged capable of enduring physical exertion suitable to his age.' More than 41 per cent of those examined were placed in Grades III and IV. The Medical Boards' gradings were summarized as follows:

medical examination showed that, of every nine men of military age in Great Britain, on the average three were perfectly fit and healthy; two were upon a definitely infirm plane of health and strength whether from some disability or some failure in development; three were incapable of undergoing more than a very moderate degree of physical exertion and could almost (in view of their age) be described with justice as physical wrecks; and the remaining man was a chronic invalid with a precarious hold upon life.³¹

In spite of this forthright view, there seems no reason to doubt the conclusion of the Medical Department of the Ministry of National Service that those examined were a fair representation of 'the manhood of military age of the country in the early twentieth century'.³²

II

Despite the inadequacies of physique revealed among men conscripted in 1917-18, the civilian population experienced a period of full employment and rising money wages offset only partly by the wartime price inflation. J. M. Winter has suggested that the First World War should be seen as a period of advance in civilian health,

but none of the figures offered by Clements indicate that this could be translated into gains in stature.³³ Within the period 1905-1920, Clements found no discernible increases in children's heights and, in general, that mean weights actually fell. The origins of the secular increase in growth which has been so evident in the twentieth century are to be found in the interwar years. Between *c.* 1920 and *c.* 1940, children of elementary school ages gained 2-3½ins in height and 5-13½lbs in weight,³⁴ despite the suggestion by Weir³⁵ that the periods of depression in the early 1920s and early 1930s were reflected in slower development of children. Contemporary observation of improvements in growth began to be made by School Medical Officers during the 1930s, despite the concern with malnutrition that developed in areas where long-term unemployment became marked. From the advantage of a later viewpoint Boyne, Aitken, and Leitch (1957) were able to discern some pattern in these changes.³⁶ Commenting on heights and weights of 12-year-olds, they noted a slight fall in the years before the First World War but that a gradual rise began in the 1920s. There was a 'suggestion of an arrest of progress' during the slump years, 1930-33, followed by a resumption of growth until the outbreak of war in 1939. Instead of the war arresting this trend, Weir claimed that the evacuation of many schoolchildren in 1940-41 resulted in an upsurge of growth which continued after the war when, between 1945 and 1953, heights continued to increase while weights 'rose steeply'.³⁷ This last burst of growth was widely noted: for the London County Council area boys' heights increased on average by 0.59ins between 1949 and 1954 and girls' heights 0.39ins, while weights increased by 3.3lbs and 2.2lbs respectively.³⁸ Even as early as 1949, sir Allen Daley, the Chief Medical Officer of the London County Council noted that 'by *pre-war* scales of growth, post-war children appear three months older than their true ages'.³⁹ These gains in stature were noted at each age during school life when children were medically examined, namely, five, eight, and 12 years of age. Looking back over its first half-century of operations, the School Medical Service's report in 1957 summarized the secular trend in growth. In urban areas, five-year-old children showed gains of 2-3ins in height and 4-6lbs in weight over the period 1907-57, while both eight- and 12 year olds had become 2-4ins taller and 7½-9½lbs heavier.⁴⁰

Changing conditions during the Second World War had beneficial effects on children's growth which extended beyond the improvements in evacuees noted by Weir. Special investigations carried out by Dr E. R. Bransby for the Ministry of Health and the Board of Education began in 1940. By 1944, when 21 localities had

Table 4: Nutritional assessment of school children in England and Wales in 1935

<i>Area</i>	<i>Numbers examined (thousands)</i>	<i>Grading A and B (%)</i>	<i>C (%)</i>	<i>D (%)</i>
London	189	94.25	5.67	0.08
West Riding	61	81.68	17.48	0.84
Birmingham	41	90.13	8.63	1.24
Durham County	40	77.40	19.80	2.70
Liverpool	37	88.50	10.10	1.40
Lancashire	36	89.30	10.10	0.50
<i>Special Areas</i>				
Newcastle	14.6	88.32	11.15	0.53
Jarrow	1.3	70.40	22.90	6.70
Sunderland	10	88.22	10.94	0.83
Glamorgan	14.8	82.00	16.57	1.39
Monmouth	9.7	84.60	15.10	0.17
Merthyr Tydfil	2.7	86.10	11.26	2.62
Pontypridd	1.9	75.70	19.45	4.76
<i>Total</i>	1687	88.70	10.60	0.70

Source: *The Health of the School Child 1935* (1936).

been surveyed, his results showed that in 17 areas boys heights had increased and in a further three areas they were the same as prewar standards. For girls, 14 areas showed an increase, while four remained the same. There were only limited examples of loss of height and/or weight compared with the pre-war period. Children between five and 14 years showed a general increase in height of the order of $\frac{1}{4}$ - $\frac{1}{2}$ in. and a gain in weight of $1\frac{1}{2}$ -2lbs.⁴¹ There was general agreement that the reasons for the improving physical standards were largely nutritional, but that there was a substantial underlying economic factor. While the food policy imposed during the war had contributed to a fair distribution of available food supplies including, as the war progressed, some positive discrimination in favour of groups in the population with special needs such as workers engaged in heavy manual labour, and supplementary foods for children, full employment provided the economic basis from which many benefited. This was particularly true of the pre-war Special Areas. Dr T. H. Stephens, the School Medical Officer for Merthyr Tydfil, reported in 1944: 'The improved conditions are undoubtedly due to the present economic conditions existing in the County Borough, greater employment and to the fact that children were able to have a good midday meal and milk.'⁴² It was in areas like Merthyr Tydfil that routine

medical inspections had shown the extent of defective nutrition in schoolchildren before the Second World War. During the 1930s, when nearly 1.7m. medical inspections were made annually, between 10-11 per cent of children were given a nutritional assessment grade of 'C' or 'Slightly subnormal' and between 0.5-1 per cent were graded 'D' or 'bad'. Putting these grades together, means that between 11 and 12 per cent of schoolchildren medically examined in the 1930s were found to be under-nourished. The pronounced regional variation in these conditions which are shown in Table 4 reflected employment patterns closely.

Despite the conclusive nature of Dr H. Corry Mann's *The Diet of the Schoolchild* in demonstrating the value of foods such as milk for growth, findings which scientists pressed upon the Ministry of Health in the broader context of the debate on malnutrition in the 1930s, no government responsibility for food policy was admitted until the Luke Committee's Report was issued in 1937.⁴³ Supplementary feeding was therefore minimal in the inter-war years. In 1938, only 160,000, or just 4 per cent of elementary schoolchildren had school dinners, the bulk of which (110,000) were given free at 'feeding centres'. By that time, the school milk scheme had become well established since its first year of operation in 1935, and about 55 per cent of the school population, some 2.5m. pupils in all, drank milk at school in 1938. The initial effect of the war upon these schemes was disruptive: many feeding centres closed and there was a drop in milk consumption. Table 5 shows the extent of the deterioration until July 1940, when special financial provisions were introduced, followed by further measures in 1941 to increase the palatability of school meals by enlarging the allowances of meat and sugar. From that point, consumption expanded significantly and by the end of the war nearly 40 per cent of schoolchildren had school dinners and over 70 per cent had milk.⁴⁴ The uptake of milk and meals at school in Special Areas was a significant factor in the levelling-up of nutritional status among schoolchildren which occurred during the war. Table 6 shows the falling proportion of children graded 'C' or 'fair' (the prewar designation was 'slightly subnormal') together with the levels of school meals and milk consumption reached in the autumn of 1945. Grade 'D' (pre-war 'bad') also fell overall from 0.5 per cent in 1938 to 0.3 per cent in 1945. Even in bad areas, grade 'D' had been almost eliminated by 1945: in Jarrow, it fell from 4.84 per cent of children in 1938 to 0.25 per cent in 1945; in Pontypridd, from 2.03 to 0.52 per cent.⁴⁵

The contribution made by these changes towards eradicating regional disparity in physical development was followed in the

Table 5: Numbers of children having school meals and milk in England and Wales during the Second World War

<i>Date</i>	<i>Meals</i>		<i>Milk</i>	
	number (m.)	percentage of school population	number (m.)	percentage of school population
1938-39	0.150	4.4	2.500	55.0
July 1940	0.130	3.5	2.100	not known
Feb. 1941	0.279	6.5	2.479	57.6
Feb. 1942	0.607	14.0	3.386	77.9
Feb. 1943	1.048	23.5	3.371	76.8
Feb. 1944	1.495	32.8	3.428	76.3
Feb. 1945	1.650	36.3	3.265	73.0
Oct. 1945	1.840	39.7	3.322	71.7

Source: *The Health of the School Child 1939-45* (1947).

Table 6: Take-up of school meals and milk in areas showing nutritional improvement during the Second World War

Area Proportion of school population (Oct. 1945) having meals and milk Grade C nutritional assessment at routine medical examination

<i>Counties</i>	<i>Meals</i>	<i>Milk</i>	<i>1938</i>	<i>1945</i>
	(%)	(%)	(%)	(%)
Durham	30.1	73.7	23.4	17.26
Glamorgan	40.4	61.2	22.1	10.45
Monmouth	43.8	72.9	14.6	9.84
<i>County Boroughs</i>				
Gateshead	32.4	56.7	29.7	25.47
Merthyr Tydfil	63.7	76.1	26.6	7.40
England & Wales	39.7	71.7	10.8	8.90

Source: *The Health of the School Child 1939-45* (1947).

post-war years by a period in which improved medical treatment and more (and better) food contributed to a higher standard of living. By 1954, the School Medical Officer of the London County Council noted that within his school population differences in heights and weights by area had 'largely disappeared'.⁴⁶ But London, despite its poor districts, had never been noted for a high proportion of children with unsatisfactory nutrition: in 1953, less

Table 7: Variation in heights and weights of five-year-old children in Sheffield (1956)**7a: Heights**

<i>Sex</i>	<i>Good district</i> (ins)	<i>Medium district</i> (ins)	<i>Poor district</i> (ins)
Boys	43.77	43.37	42.71
Girls	43.30	42.67	42.32

7b: Weights

<i>Sex</i>	<i>Good district</i> (lb)	<i>Medium district</i> (lb)	<i>Poor district</i> (lb)
Boys	44.56	43.56	43.06
Girls	42.99	41.85	41.56

Source: *The Health of the School Child 1956-57* (1958).

than 6 per cent of its children were graded C or D (see Table 4). In the provinces and in Scotland, environmental differences still affected physical development. The effects of disparities in housing provision had been noted in Scotland earlier in the century: in the early 1930s, 13-year-old children living in accommodation of four or more rooms were 1in taller and around 4lbs heavier than those living in three rooms, and as much as 2.5ins taller and 8-9 lbs heavier than those living in one room.⁴⁷ Better growth by children in poorer areas in post-war years did not eliminate the social gradient in heights or weights. In Liverpool in 1949, children's weight differences at five years between 'good' schools and 'poor' schools was 2.3lbs; at eight years, 3lbs; and at 12 years, 4.6lbs.⁴⁸ By the mid-1950s, when routine medical inspections revealed less than 2 per cent of children as being in an unsatisfactory physical condition and obesity rather than under-nutrition had begun to catch the eye of medical observers, the social gradient could still be very marked. In Sheffield, as shown in Table 7, both heights and weights of five-year-olds showed that children from good districts were taller and heavier than those from less satisfactory areas. There was some feeling in the late-1950s that the social gradient was becoming less distinct,⁴⁹ but the 1947 birth cohort which formed the basis of the Newcastle Thousand Families study showed almost 5ins height difference between children of Social Class I and children of Social Class V at the age of 15 years, as in Table 8. It can also be noted from Table 8 that these variations in heights and weights developed despite close similarities of birth weights.⁵⁰

Table 8: Growth according to social class in Newcastle-upon-Tyne in the 1950s**8a: Heights**

<i>Ages (years)</i>	<i>Social class</i>				
	I	II	III	IV	V
	(ins)	(ins)	(ins)	(ins)	(ins)
3	37.4	37.2	36.7	36.5	36.0
5	45.3	44.3	43.5	43.4	43.0
9	52.0	51.8	50.8	50.3	50.1
13	60.4	60.2	59.3	58.8	58.6
15	65.5	64.6	62.5	63.7	62.7

8b: Weights

<i>Ages (years)</i>	<i>Social class</i>				
	I	II	III	IV	V
	(lb)	(lb)	(lb)	(lb)	(lb)
Birth	7.54	7.56	7.35	7.37	7.37
3	33.5	32.7	32.3	31.5	31.5
5	46.2	44.9	42.7	42.1	42.0
9	66.7	62.5	60.1	58.1	58.7
13	102.3	97.6	94.5	90.2	92.0
15	126.2	120.4	116.0	114.0	112.9

Source: *The School Years in Newcastle-upon-Tyne 1952-62* (1974).

III

Children apart, evidence of positive advances in health and physique is more difficult to come by. A large cross-sectional survey of adult health was carried out between 1939 and 1945 in the course of medical inspections for military service. This was extended into the 1950s while conscription remained in force. Although the material relating to nearly 6m. medical inspections has been preserved in the Public Record Office, it has not yet been analysed, so that no comparison with the Report of the National Service Medical Boards for 1917-18 can be made. Similarly, little is known of the legacy of ill-health left by the First World War in the form of nearly 2m. applications for war pension, though this was but a temporary setback in the general improvement in adult health which began in the twentieth century.

The increasing longevity of the population was one sign of the improvement of health. Life expectancy at birth began to rise from the 1890s, when it was just over 43 years for males and just under 47 years for females. Even before the First World War, children

born in England and Wales in 1911 had a life expectancy of 51.5 years for boys and 55.4 years for girls. This trend continued unabated as the century progressed, with life expectancy at birth for boys reaching 66.2 years in 1951, and 69 years in 1971. Girls' life expectancy made even greater progress, reaching 71.2 years by 1951, and 75.2 years by 1971.⁵¹ The proportion of the elderly in the population also rose. The Census of England and Wales in 1911 showed that less than 7 per cent of the population were old people, but this had risen to 9.6 per cent by 1931. After the Second World War, the Registrar General's estimates for 1951 indicated that 13.6 per cent of the population were elderly, and by 1971 that over 16 per cent were of these age groups.⁵²

At this point in the discussion, changing patterns of ill-health do begin to contribute to our knowledge of the health of the population. The increase in longevity during the first half of the century depended upon the continued decline in infectious diseases which, in the nineteenth century had brought death and stunted growth. The effect of these diseases was exacerbated during the Victorian age by low resistance to infective organisms among the poorer social classes which in turn reflected limitations in nutrition and environmental conditions. During the twentieth century, as people have survived longer, so degenerative diseases have become a major cause of mortality, a change notable because cardiovascular disease, cancer, and accidents, which are now among the principal causes of deaths, can be described as diseases of affluence which have grown in importance as the standard of living has risen. In another sense, too, they reflect changes in social conditions: in all these examples there is a factor which reflects personal consumption levels. Unfortunately, these causes of death tend to reflect levels of self-indulgence or, in other words, may be termed self-inflicted. However, the identification and eradication of infectious diseases by medical science, which has been the major achievement of the twentieth century, has not produced a more positive approach to health.

Rising standards of living have been coupled with a commitment to sustain a National Health Service since the Second World War. Expenditure on the National Health Service rose from £587m. in 1951 to £2,754m. in 1971; health and personal social services took 10.1 per cent of total public expenditure in 1951, rising to 11.4 per cent by 1971.⁵³ Of course, much of this expenditure has gone into high-technology areas of medicine. The hospitals, for example, have taken a growing proportion of expenditure, rising from 47.5 per cent in 1951-52 to 57.1 per cent in 1971-72,⁵⁴ while the proportion spent on dental, pharmaceutical,

ophthalmic, and general medical services have each declined over the same period. Up to and including the Second World War, poverty had been the principal factor involved in ill-health; after 1945 poverty had been largely eradicated, though income differentials and social class differences remained. During the 1960s and 1970s, with unemployment returning as a social problem from 1967 onwards, there has evolved a concern that inequalities in health have shown a remarkable persistence and, in some cases, may have been increasing.⁵⁵

There seems little doubt that social attitudes to health have changed in post-war Britain; after all, self-diagnosis is a principal element in seeking medical advice. But the historian can gain little knowledge of the health of the population from medical sources. Bio-physics rather than epidemiology has come to dominate the health service; survey work has the lowest priority for nutritionists.⁵⁶ The DHSS Working Group Report *Inequalities in Health* has shown little more than the continued existence of a social gradient in disease patterns. Failure to maintain the anthropometric monitoring of schoolchildren was discernible in the reports of the School Health Service throughout the 1960s and up to the point of its transfer to the DHSS in 1973. Today it might almost be said that little more is known of the nation's physical development than when the British Association tried to collect the measurements of visitors to exhibitions in the 1880s. Residual definitions of health still predominate in social planning. It is ill-health which is discussed all too frequently rather than the health of the people.

Notes

¹ For the use of this concept, see G. Stedman Jones, *Outcast London* (Peregrine edition, 1976) ch. 6.

² *Report of the Inter-Departmental Committee on Physical Deterioration* Parliamentary Papers 1904 (Cd. 2175) XXXII, para. 189.

³ J. Cantlie, *Degeneration amongst Londoners* (1885) Parkes Museum of Hygiene Lecture. Cited in Stedman Jones, op. cit. p. 127.

⁴ J. P. Freeman-Williams, *The Effects of Town Life on the General Health* (1890) p. 5, cited in Stedman Jones, *ibid.*

⁵ For a discussion of this concept, see R. Dubos, *Mirage of Health* (1960) ch. VII and S. Leff, *You . . . Your Health . . . Your Community* (1970) ch. 1.

⁶ Dubos, *ibid.* Samuel Butler's concept of ill health as a crime is set out in *Erewhon* (1872) chs. X-XI. There is some slight basis for seeing this as a development in scientific thought: Butler had been influenced by Darwin's *Origin of Species* (1859) while in New Zealand and corresponded with him

on returning to England. See S. Butler, *Darwin on the Origin of Species* (1862, reprinted 1912).

⁷ Robert Koch's isolation of the tubercle bacillus in 1882 had a much wider impact on theories of disease than the earlier discoveries of Louis Pasteur did. A brief history of scientific theories of the causation of disease is given in Dubos, *op. cit.* ch. IV.

⁸ E. M. B. Clements, 'Changes in the mean stature and weight of British children over the past seventy years' *British Medical Journal*, 24 Oct. 1953, 897-902. Further examples are given in F. B. Smith, *The People's Health 1830-1910* (1979), pp. 175-178. There is also Dr A. A. Mumford's 'The physique of the modern boy' in *Transactions of the Manchester Statistical Society*, 1912-13, 127-168. Francis Galton's surveys and other late-nineteenth century anthropometric work are referred to in *I-D. Cttee. on Phys. Det.*, Vol III (Cd. 2186), Appendix IX.

⁹ Clements, *op. cit.* A different view is expressed in J. M. Tanner, *Growth at Adolescence* (second edition, 1962) pp. 147-148, though the evidence offered for England before the twentieth century is inconclusive.

¹⁰ H. L. Beales, 'The "Great Depression" in Industry and Trade', *Economic History Review* V (1934), 65-75, reprinted in E. M. Carus-Wilson, *Essays in Economic History* (1954), 406-416.

¹¹ Figures from the Registrar General for England and Wales cited in the *Second Report on Infant Mortality*, a supplement to the 42nd Annual Report of the Local Government Board, P.P. 1913 (Cd. 6909) XXXII, 73.

¹² *Ibid.* p. 84. Additional evidence which suggested that the decline in breastfeeding was not as marked as the Committee on Physical Deterioration had assumed had already appeared in the first *Report on Infant Mortality*, a supplement to the 38th A. R. of the Local Government Board, P. P. 1910 (Cd. 5263) XXXIX, 86.

¹³ See *Report of the I-D. Cttee. on Phys. Det.* *op. cit.* paras. 110, 151, 264. Also the *Report* and *Second Report on Infant Mortality* *op. cit.* For the most obvious class attitudes, see *Report on Child Mortality*, a supplement to the 45th A. R. of the Local Government Board, P. P. 1917-18 (Cd. 8496) XVI, 64. The stoic acceptance of hardship is well illustrated in F. Thompson. *Lark Rise to Candleford* (1954 edition) p. 40.

¹⁴ 7 Edw. VII c. 43.

¹⁵ Board of Education, *Annual Report for 1910 of the Chief Medical Officer*, P. P. 1911 (Cd. 5925) XVII, para. 314. See R. H. Tawney's introductory note to A. Greenwood, *The Health and Physique of School Children* (1913).

¹⁶ Greenwood, *ibid.* pp. 25-6, 29-33.

¹⁷ Mr Sydney Buxton spoke to a London School Board conference in these terms (*School Board Chronicle*, 13 December 1884, pp. 628-9) though it is difficult to pinpoint a particular year when this concern began to be translated into feeding programmes. Funds for the purposes of feeding schoolchildren were collected by newspapers from about 1880, notably the *Referee*, under G. R. Sims' editorship, and the *Globe*. Speaking before the

Physical Deterioration Committee, Mr A. Stirling claimed that the Destitute Children's Dinner Society went back to c. 1875; the Poor Children's Aid Society began work in 1886 and its feeding work was carried on by the London Schools Dinner Association (1889). Feeding schemes developed in many provincial towns in the 1890s.

¹⁸ *Report of the I-D. Cttee. on Phys. Det.*, op. cit. para. 358.

¹⁹ 6 Edw. VII c. 57.

²⁰ Dr Crowley's work and other observations which confirmed his findings are described in M. E. Bulkley, *The Feeding of School Children* (1914) ch. V.

²¹ Hansard, 10 April 1913, vol. 51, 1381; Education (Scotland) Department, *First Report on the Medical Inspection of School Children in Scotland* (1913) ch. VI. Developmental retardation due to underfeeding was still considered to be operating after the First World War, as the following summary published in 1920 indicates: 'the experience of the Education Authorities during the last 14 years has demonstrated beyond all question, first, that there is a degree of physical defect and impairment among school children which prevents large numbers of them from receiving reasonable benefit from the education which the Authority provides . . . and secondly, that unless the Authority itself arranges for, or provides, means of treatment the great majority of ailing children will not in fact be treated, and a harvest of physical degeneration will result'. *Annual Report of the Chief Medical Officer of the Board of Education*, 1920, P. P. 1921 (Cmd. 1522) XL, p. 2.

²² *Report of the I-D. Cttee. on Phys. Det.* op. cit. para. 140.

²³ *Ibid.* para. 141; Vol. II (Cd. 2210) Q. 450.

²⁴ *First Report on Medical Inspection in Scotland*, op. cit. para. 81.

²⁵ *Report of the I-D. Cttee on Phys. Det.* Vol. II, op. cit. Q. 450.

²⁶ A. J. P. Taylor, *English History 1914-45* (Penguin edition, 1970) p. 26.

²⁷ The campaign for physical efficiency was most clearly to be seen in Conservative journals. For a discussion of the diverse strands in the debate on national physique, see G. R. Searle, *The Quest for National Efficiency* (1971) pp. 60-67. Searle describes the review *Nineteenth Century* as 'the "official" mouthpiece of the "efficiency group" in the Boer War period' (pp. 148-9). The article by G. F. Smee, 'The deterioration in the national physique' in *Nineteenth Century* Vol. LIII (1903) 802, was the precursor of the 1904 Inter-Departmental Committee's inquiry. On the Boer War, see also *Contemporary Review*, Vol. LXXXI (1902), 78-86 'Where to get men'; Vol. LXXXIII (1903), 41-56 'National health: A soldier's study'. *Annual Report of the Inspector-General of Recruiting for the year 1902*, P. P. 1903 (Cd. 1417) XI, para. 150; *Report of the I-D. Cttee. on Phys. Det.* Vol. II, op. cit., evidence of Sir William Taylor, Q. 10.

²⁸ *Report of the I-D. Cttee. on Phys. Det.* op. cit., para. 68.

²⁹ There are extensive discussions of these aspects of health in the *Report of the Royal Commissioners on the Care and Control of the Feeble-Minded*, P. P. 1908 (Cd. 4202) XXXIX; *Report of the Royal Commission on Venereal Diseases*, P. P.

1916 (Cd. 8189) XVI; *Final Report of the Departmental Committee on Tuberculosis*, P. P. 1912-13 (Cd. 6654) XLVIII.

³⁰ *Report upon the Physical Examination of Men of Military Age by National Service Medical Boards*, P. P. 1919 (Cmd. 504) XXVI; *National Service Instruction (N. S. I. No. 3 of 1917)* P. P. 1917-18 (Cd. 8834) XXXVIII.

³¹ *Report upon the Physical Examination*, op. cit. p. 22.

³² *Ibid.* p. 5. In fact the Report did suggest an average level of physical development: 'there is already sufficient evidence to show that a combination of height 5ft 6ins, weight 130lbs, chest girth 34 ins, will be found to be approximately the average measurements of the Grade I men of military age' (p. 23).

³³ J. M. Winter, 'The impact of the First World War on civilian health in Britain', *Economic History Review*, 2nd. ser. Vol. XXX, 3 (1977) 487-507; Clements, op. cit. p. 901. In support of J. M. Winter's viewpoint, the *Annual Report of the Chief Medical Officer of the Board of Education*, 1918, P. P. 1919 (Cmd. 420) XXI, p. 13 noted 'the continuous decline in the percentage of children returned as poorly nourished'. Nevertheless, 2-3 per cent of children entering school showed a 'serious degree of rickets' (p. 45).

³⁴ Clements, op. cit. p. 901.

³⁵ J. B. de V. Weir, 'The assessment of the growth of schoolchildren with special reference to secular changes' *British Journal of Nutrition*, Vol. 6, 1 (1952) 19-33.

³⁶ A. W. Boyne, F. C. Aitken & I. Leitch, *Nutrition Abstracts and Reviews* Vol. 27 (1957) 1.

³⁷ *Ibid.*

³⁸ J. A. Scott, *Report on Heights and Weights of London School Children* London County Council (1954), cited in Ministry of Education, *The Health of the School Child 1954-55* (1956) p. 23.

³⁹ A. Daley, 'Heights and weights of London school children' *The Medical Officer*, 5 June 1948, cited in Ministry of Education, *The Health of the School Child 1948-49* (1952) p. 9.

⁴⁰ Ministry of Education, *The Health of the School Child 1956-57* (1958) p. 68.

⁴¹ Ministry of Education, *The Health of the School Child 1939-45* (1947) pp. 20-21.

⁴² *Ibid.* p. 19.

⁴³ Ministry of Health, *Advisory Committee on Nutrition: First Report* (1937); for H. Corry Mann's findings, see Medical Research Council, *Special Report Series No. 105* (1926).

⁴⁴ *Health of the School Child 1939-45*, op. cit. pp. 23-24.

⁴⁵ *Ibid.* p. 18.

⁴⁶ J. A. Scott, cited in *Health of the School Child 1954-55*, op. cit. p. 23.

⁴⁷ Scottish Health Services, *Report of the Committee on House Size* cited in Board of Education, *The Health of the School Child 1935* (1936) p. 28.

- ⁴⁸ *Health of the School Child 1948-49*, op. cit. p. 9.
- ⁴⁹ Ministry of Education, *The Health of the School Child 1958-59* (1960) p. 14.
- ⁵⁰ F. J. W. Miller, S. D. M. Court, E. G. Knox & S. Brandon, *The School Years in Newcastle-upon-Tyne 1952-62* (1974) p. 61.
- ⁵¹ Central Statistical Office, *Annual Abstract of Statistics 1980* (1980) Table 2.33; *Statistical Abstracts of the United Kingdom*.
- ⁵² Calculated from Table 2.34, *Annual Abstract of Statistics 1980*, op. cit., taking the retirement population of men over 65 years and women over 60 years as elderly; or see Central Statistical Office, *Social Trends*, No. 3 (1972) Table 1.
- ⁵³ *Social Trends* No. 3, op. cit., Table 148.
- ⁵⁴ *Ibid.*, Table 150.
- ⁵⁵ Department of Health and Social Security, *Inequalities in Health* (1980).
- ⁵⁶ Agricultural Research Council/Medical Research Council, *Food and Nutrition Research* (1974) pp. 14-15.

Further reading

- S. Leff, *The Health of the People*, Gollancz, 1950. An institutional study of the development of medical facilities from the early nineteenth century to 1948.
- F. B. Smith, *The People's Health 1830-1910*, Croom Helm, 1979. Principally a discussion of disease and health disorders during the nineteenth century.
- R. Dubos, *Mirage of Health*, George Allen and Unwin, 1960. A seminal work by an eminent scientist which views health as a dynamic process of biological and social adaptation to environmental stress.
- J. B. Orr, *Food Health and Income*, Macmillan, 1936. A primary source for the interwar period relating low incomes with deficient diet and restricted physical growth.
- Rowett Research Institute, *Food Diet and Health in Pre-War Britain*, Carnegie United Kingdom Trust, 1955. An insufficiently-known primary source on diet and growth for the interwar period, but which should be read in the context of criticism by A. H. J. Baines, D. F. Hollingsworth and I. Leitch, *Nutrition Abstracts and Reviews*, 33 (1963) 653-668.
- J. M. Tanner, *Growth at Adolescence*, Blackwell, second edition, 1962. A standard work for the biology of growth. Historians may find his *Foetus into Man* (Open Books, 1978) more suitable for the 'biologically unsophisticated reader'.
- T. McKeown, *The Role of Medicine*, Blackwell, 1979. Conceptually limited about health, though it claims to offer 'a new interpretation of human health history', this is a conventional text on social medicine.
- I. Illich, *Medical Nemesis*, Calder and Boyars, 1975. Should be read as a purgative by those who find Leff or McKeown acceptable.
-

Working wives and their families

ELIZABETH ROBERTS

9170
8260
0442
8410
u.1

In the first two decades of this century fewer than 14 per cent of married and widowed women in England and Wales were employed in full time work;¹ by 1951 the percentage was 21.7 and by 1976 had risen to 49 per cent.² Historically, women, married and unmarried, were an integral part of the rural workforce and of domestic industry; with the coming of factories they found new employment in urban environments like the textile centres of Lancashire and Yorkshire. Married women in the working classes were constantly criticized by the better-off.³ The intention of this chapter is to examine the lives of working wives and their families in three towns in north Lancashire during a comparatively short historical period, 1890-1940. The evidence will be drawn both from official records and from oral sources, the latter providing information about the familial, social and working lives of working-class women not otherwise readily available.⁴

The three towns are Barrow, Lancaster and Preston. Economically and socially they had certain similarities. Socially they all had large working-class populations which to a considerable extent shared a common culture and set of mores. Economically they had a substantial number of workers involved in the basic service industries of transport and building. There were, however, substantial economic and commercial differences between them. Barrow relied for its prosperity on three basic and interrelated heavy industries: the manufacture of iron and steel, engineering and shipbuilding. Its population rose from 51,712 in 1891 to a peak of 74,244 in 1921, falling back to 66,200 in 1931.⁵ There were few married and widowed women in full-time employment: 5.8 per cent in 1901 and 6.9 per cent in 1911.⁶ Lancaster was smaller than Barrow, 31,038 in 1891 rising to 43,383 in 1931,⁷ but had a more complex and diversified economic structure. It retained many of

the service functions of a former county town, such as an extensive retailing sector, an asylum, workhouse and prison. There was also employment for skilled men in its furniture and joinery works, but the typical Lancaster worker was likely to be employed in some aspect of the production of linoleum and oilcloth, including the manufacture of cotton for the backing of the oilcloth. In 1901, 10.2 per cent of married and widowed women were in full-time work, this figure rising to 11 per cent in 1911⁸ (this was not far below the national average of 13.6 per cent). Preston was the largest of the three towns, the population rising from 107,573 in 1891 to 119,001 in 1931.⁹ It was a textile town in the sense that its largest single occupational group was that of textile workers, 27,880 of them in 1891 and 18,383 in 1931. (This group never, however, formed an absolute majority of Preston workers; it was 47 per cent of the total work force in 1891 and 38 per cent in 1931.)¹⁰ Besides producing cotton cloth, Preston had a heavy engineering works and, being the county town, a complex network of service occupations. Like other Lancashire towns with a large number of weaving sheds, Preston was characterized by a large percentage of married and widowed women in full-time work, 30.5 per cent in 1901 and 35 per cent in 1911.¹¹

Because of the limitations of census data it is only possible to discover the occupations of these married women in the census returns of 1901 and 1911 and then only for Barrow and Preston. (The census returns of 1891, 1921 and 1931 provide details of total female employment but do not differentiate between the married and the unmarried.) In Barrow there is no clear pattern of employment. Until the 1890s there had been a flourishing jute works which employed a large number of women (1200 in 1891). It subsequently suffered a disastrous fire and never regained full production. It is likely, however, that its female employees were always predominantly unmarried girls: the 1901 census enumerated 444 unmarried jute workers but only 38 married ones. Indeed there was a total of only 646 married and widowed women in full-time work and of these the largest individual total was 119 food dealers. There were also boarding house keepers, domestic servants and dressmakers. The position was similar in 1911. In Preston patterns of employment were very different; 71 per cent of all married women in work in 1901 and 76 per cent in 1911 were engaged in textile production, usually as weavers but also as ring spinners, carders, winders and warpers. The remainder followed the same range of occupations as did the women in Barrow.¹²

This somewhat stark rehearsal of the census evidence is useful in determining the scale of married women's employment in the three

Table 1 Female Employment 1891-1931¹⁴

(Women employed expressed as a percentage of the total number of women).

	<i>Barrow</i>	<i>Lancaster</i>	<i>Preston</i>
Women aged 10 & over 1891	32%	n/a	61%
Women aged 10 & over 1901	21%	30%	52%
Women aged 10 & over 1911	21%	29%	54%
Women aged 12 & over 1921	22%	30%	52%
Women aged 14 & over 1931	24%	33%	53%

towns in 1901 and 1911, but in the absence of comparable information for 1891, 1921 and 1931 it is rather difficult to be precise about whether the percentage of employed married women was rising, falling or constant. Scott and Tilly in *Women Work and Family* argue that 'by the first decades of the twentieth century married women in working-class families spent more time at home and less time earning wages'.¹³ It is probable that in this area of north Lancashire the percentage of married women in work did decline in the 1890s simply because the total percentage of all women in work fell, as may be seen from Table 1. However, there seems little evidence that this decline continued. As has been seen, there was a small increase in the percentage of married women in work in all three towns between 1901 and 1911 and as the total percentage of women in work remained fairly constant after 1901 apart from the war years which do not concern us here, there is no reason to suppose that the percentage of employed married women declined. There is certainly no oral evidence to suggest that this was the case. One of the basic problems with census data is that it tells us nothing about the majority of married women who are simply dismissed as 'unoccupied'. Oral evidence is of very considerable value in indicating the importance of part-time work for married women in all three towns. In Barrow only one woman in the sample had a full-time job after marriage (she became a cleaner in Vickers after being widowed when her daughter was 17)¹⁷ but approximately 50 per cent had part-time work. In Lancaster 40 per cent of the sample and in Preston 42 per cent of the sample had similar part-time occupations at some point in their married lives.¹⁶ We know that they covered only a small range of occupations, charring, washing, baby-minding, sewing, taking in lodgers and trading, but it is impossible to quantify them further. They were carried out for a varying number of hours in the week and for very variable rates of pay. Indeed oral evidence reveals some of the key characteristics of married women's employment in

the decades before the Second World War: it was casual, episodic and irregular. In Lancaster, for example, 23 per cent of women in the sample worked full-time at some point in their married life but only one woman (who had only one child) worked continually with only a short break for childbirth.¹⁷ In Preston 46 per cent of the sample had a full-time job at some time after marriage but for the great majority this was broken up by periods at home and spells of part-time work.

There is no direct statistical data to indicate how many married women workers were mothers with dependent children. There is however some data which makes it possible to argue that many of them were. Firstly there is the oral evidence already mentioned. Secondly, beginning in the Census of 1921, it is possible to construct an age profile of women in full-time work.* Although this reveals a dramatic decline in the percentage of women employed in the age group 25-34 as compared with those aged 14-24, it still indicates that women were much more likely to be employed during the years of child-bearing (usually taken to be 15-44) than in subsequent years. In other words a married woman was more likely to be in full-time work when her children were young than she was likely to return to work after they had grown up. Michael Anderson¹⁸ described this trend of a woman's employment *away* from factory work through her life-cycle as being already discernible in Preston in the mid-nineteenth century.¹⁹

Oral evidence certainly reinforces this picture of a mother working to support her children when dependent and then 'retiring' from full-time work as they started earning and contributing their wages to the family budget (see p. 146). It could be argued that out of the 35 per cent of married women in full-time work in 1911 in Preston a large percentage might have been childless. Again there is no direct evidence but it would seem improbable. The Royal Commission on Population, reporting in 1949, stated that in their survey of women married between 1900 and 1924 only 8.5 per cent had no children (whether voluntarily or involuntarily).²¹

There is therefore evidence to suggest that many of the married

*Ages of women in full-time employment, Preston 1921.²⁰

Women in full-time work as a percentage of the total number of women in each age group

<i>Ages</i>							
<i>14-19</i>	<i>20-24</i>	<i>25-34</i>	<i>35-44</i>	<i>45-54</i>	<i>55-59</i>	<i>60-64</i>	<i>65-70</i>
86.7	84.9	61.0	43.8	32.9	28.7	24.4	20.3

women working in the period 1890-1940 had children; however we cannot say from official sources what percentage nor can we specify the size of their families.

Why did so many women work either full or part-time?²² Conversely why did 50 per cent of the Barrow sample, 40 per cent of the Lancaster sample and 13 per cent of the Preston sample have no paid occupation? In 1901 Seebohm Rowntree published *Poverty, A Study of Town Life* and in it he argued that it was possible to draw a poverty line at 21s. 8d. for a family of four or five persons. Any family earning less than that was in primary poverty, which he defined as 'earning insufficient to obtain the minimum necessities for the maintenance of mere physical efficiency'.²³ In the 1920s Bowley and Hogg, using a standard of bare physical efficiency, believed that expenditure of 37s. 6d. was necessary if this standard was to be achieved for a family of five.²⁴ The investigators in *The Social Survey of Merseyside*, begun in 1928, adopted the same standard²⁵ but Rowntree who conducted his second survey of York in the 1930s believed that an income of 53s. a week was then essential for a family of five to secure the necessities of a healthy life.²⁶ We need look no further than men's earnings during this period to find the explanation of why so many women had to go out to work. Before the First World War labourers in the three towns took home less, and often considerably less than Rowntree's basic minimum of 21s. 8d. The top rate appears to have been in Lancaster where Lord Ashton's labourers in the linoleum works earned £1-0-3d. In Barrow, Vickers' labourers earned 18s. as did railway labourers in all three towns.²⁷ Some labourers in Preston earned even less than this and, unlike their Barrow and Lancaster counterparts, they were paid on a casual basis whether on the docks, building sites or on farms. The father of one respondent was lucky to earn, as a casual labourer, a maximum of 2s. 6d. a day.²⁸ Weavers were not unskilled labourers but their wages would be very low. The records of the Preston Weavers, Winders and Warpers give many samples of low wages; in 1904 William Wilson of Astleyfield Mill, complaining against dismissal, gave his wages for the previous weeks, as 16s., 15s. 6d. and 15s.²⁹ In the inter-war period labourers in Barrow and Lancaster earned about £2 a week which put them above Bowley and Hogg's poverty line of the 1920s but below Rowntree's of the 1930s. These figures are, of course for those lucky ones with jobs. In this area the inter-war period was marked by high unemployment and short-time working. In Preston wages seem to have been significantly lower. Labouring wages as low as 30s. a week have been mentioned and textile wages were both erratic and low. A respondent whose

husband was a weaver said he earned only 21s. in the week their first child was born in 1925.³⁰ A male weaver who claimed that his wages were £2-5s. in 1929 said that they had fallen to £1-19s. in 1939.³¹ Weaving wages could and did vary from mill to mill, from week to week and from weaver to weaver, depending, among other things, on the width, type, thickness and the complexity of the weave of each 'cut' of cloth, the skill of the weaver, the mechanical reliability of the loom, the availability of the yarn and the aptitude and personality of the tackler or overlooker. We can be certain that, however these variables operated, weaving wages remained low. The Amalgamated Weavers Association in 1936 claimed that the average wage for weavers was £1-11s.-5d.³²

It is clear from the oral evidence that when the husband's earnings were on or below the poverty line, then almost invariably the wife had to work. She worked to raise the family wage to a level above the poverty line, at which the family could be adequately clothed, fed and housed. She worked because she had to, a point made also by Cohen, Scott and Tilly about women in the whole of Britain.³³ There are few exceptions to this rule. In the Barrow sample there were only two families before the First World War where the father earned £1 or under and the wife did not have some wage earning job. In the first of these, income was made up by the sale of produce from an allotment and the wages of the children who started part-time work as young as nine (as delivery boys).³⁴ The father in the other family was a postman but earlier in his life he had had a tailor's shop which he gave up on health grounds; it is possible that savings from the business paid for the family's annual holiday and the purchase of their own home.³⁵ In Lancaster three labourers' families had mothers who did not earn wages. In two of them the allotment again was responsible for providing an important part of the family's diet; in the other one, father and children were skilled in 'living off the land', collecting a variety of foods both to eat and to sell.³⁶ (Other families also had these alternative strategies even when mother was a wage-earner.³⁷) In Preston only one family had a total income below the poverty line, the mother being unable to work as she was an invalid, confined to bed. This family was extremely poor.

[What did your mother give you to eat?]

Bread and butter or some dry bread. I don't know Bread and margarine, we never had very much else. Baked potatoes, boiled potatoes and roast potatoes in front of the fire . . . Our Christmas dinner was rabbits.³⁸

Scott and Tilly writing of the early decades of the twentieth century said, 'membership in a household still meant sharing in

the economic support of the family unit as well as eating from one pot . . . As many family members worked as was necessary to earn a target income which would maintain a minimum standard of subsistence.³⁹ It must be emphasized that in this area of north Lancashire the majority of the working-class continued to be concerned with the family wage, and families remained family wage economies until the Second World War. Married women worked not for reasons of personal satisfaction but to keep the family free from poor relief or charity.⁴⁰ The only exception was a small number of a group which in itself was exceptional, namely shopkeepers (see below pp 148-9). Some working-class women enjoyed their work. Some did not. But their reasons for working did not spring from individual needs or aspirations such as independence, the development of personality or the furtherance of a satisfying career. Whenever the mother worked for the family it was expected that, in time, the children would do so too; indeed in many families it was assumed that the mother would stop work only when the children's wages were sufficient to raise the family wage to an adequate level. As one respondent commented when asked whether his mother was still working at the time of her death:

Oh no. She would have given up a long while before then. My oldest brother was working, my sister and I was working, . . . She was pretty well off just at that time as we were growing up.⁴¹

Virtually all the respondents' mothers subscribed to the Victorian work ethic which, expressed somewhat simplistically, was a belief that salvation lay through work and damnation through idleness. They were part of a long historic process in which work had become rationalized through self-discipline, whereby the 'labourer must be turned into his own slave-driver'.⁴² Most of their daughters also subscribed to this ideal but there were curious ambivalences in their attitudes. They were united in their condemnation of the woman with dirty house or children. They gloried in their own capacity for hard work, but the routine of women's work and the place where it was carried out were subjects about which different assumptions were made and on which different status values were bestowed according to the stratum of the working-class to which the women belonged. As has been seen, it was rare for a family where the father's wage was near the poverty line, not to have the mother and later the children in paid employment. Quite different assumptions were made about and within families where the father earned a 'target' income, usually presumed to be at the level of the wages of a skilled craftsman. If the father had this level

of earnings, factors other than those of economic need affected the work pattern of the wife.

The burden of toil carried by women who cared for a home and family, and also did a wage-earning job was colossal,

It was bed and work all the time in those days, the good old days

remarked a Preston man ironically. Women who worked full-time were certainly *not* regarded as emancipated by their contemporaries, rather as drudges. Women whose husbands' earned sufficient money to clothe, feed and house the family preferred to have a reduced work load rather than the extra income. Among the daughters of the phenomenally hard working Victorian women it is possible to discern an increasingly complex attitude to work. They continue to work hard, they still condemn idleness; but the compulsive devotion to the work ethic of their parents is noticeably weaker. There is a greater appreciation of leisure, a noticeable regret on the part of those in wage-earning jobs at *having* to work so hard, and amongst the socially aspiring a desire to copy the life style of 'ladies' who were perceived as doing very little work. These two Preston women are representative of these attitudes. Mrs P. I. P.'s mother worked after marriage, and so did her sister.

My sister was saying . . . 'Haven't we been awful'. Because I have gone out cleaning. She said 'Haven't we been daft what we have done'. I have had to do it. I've had to go out cleaning when my kids were young . . . My husband was only a labourer.⁴³

Mrs B. I. P.'s four daughters (born between 1925 and 1940) are now all professional women. She is proud of them but remarked, very revealingly,

I never thought I would bring up my children to work as hard as they do. They all go out to work and I brought them up as little ladies.⁴⁴

There were also other considerations. It was a matter of pride for a man to be seen to be earning enough to save his wife from going out to work. There is no oral evidence indicating that working-class women questioned this widely held attitude. Indeed they reinforced their husbands' position by claiming that they would best fulfil their duty to their families by staying at home to devote all of their energies to the comfort and well-being of their husbands and children. Some wives of skilled men believed that they risked condemnation by their friends and neighbours if they went out to work. These quotations are typical of the attitudes of craftsmen and their wives. Mrs A. I. P.'s father was a pattern-maker in the heavy engineering works in Preston, having originally worked in Vickers in Barrow.

My mother was a winder in the cotton mills but she never worked after she was married because my father was one of those kind of men that didn't believe in women going to work. In fact he wouldn't have had fish and chips or pies for a meal, he had to have a proper cooked meal so, therefore, my mother had to be at home.

[Do you think your mother would have liked to have gone on working?]

No. She could have done but she didn't. I think she thought it was her duty to be at home and to look to us.⁴⁵

Mrs S. 1. L.'s father was a tinsmith in Lancaster earning £2 a week before the First World War. Her friend Miss S. 2. L. whose father was a baker, reinforced her views.

My mother was a weaver at Storey's Mill.

['Did she work after she was married?']

I wouldn't think so . . . I was born in 1898 and my sister in 1901 so she'd have enough with two children wouldn't she?

Miss S. 2. L.: Then tradesmen were very proud of being able to keep their wives you see.

Mrs S. 1. L.: My father was nicely brought up and I think he wouldn't want her to go out to work.⁴⁶

It is always tempting to project sets of perceptions and attitudes from one social class to another and from one period of time to another. Pre-war working-class married women in so far as they consciously thought about the question at all, perceived their emancipation as a movement away from outside paid employment and towards domesticity. Some modern sociologists and earlier middle-class feminists do not, and did not, see the question of married women's employment as did the women themselves. A. H. Halsey has written (erroneously): 'in the earlier decades the great majority of families depended entirely for their material support on male employment. The establishment of a new position for the mother independent of her link to the economy through her husband was therefore, a prominent theme of feminist reform'.⁴⁷ He quotes Eleanor Rathbone's attack on the campaign for a 'living wage' for men as 'a continuation of ancient male tyranny'.⁴⁸ Working-class economic realities and social perceptions were quite different.

Is it possible, then, to say that the wives of skilled workers never had paid employment? This was in fact the case in the samples in all three towns with two groups of interesting and important exceptions. Firstly, there was the small group of women whose husbands were unable or unwilling to provide for them for a variety of reasons: prolonged illness, unemployment, drunken-

ness, desertion and of course death. Secondly, there was a larger group of women, which overlapped the first, who worked in shops. Thirteen had their own shops, four being widows or deserted wives, the rest having husbands who followed their own job. Another 11 worked with their husbands in joint businesses. This group of shop-keeping women was a very interesting stratum of working-class life. Their husbands, with only one exception, were skilled men or shopkeepers. Within this occupational group it was not socially respectable for married women to 'go out to work', but it was quite acceptable for them to be involved in shop-keeping. Indeed these women were both seen to be, and perceived themselves to be, socially superior to those among whom they lived and from whom they derived their living. Shopkeepers were accepted as a 'bridge' group between the working and the middle-class, and shop-keeping was the most usual way of achieving upward social mobility for the aspiring members of the working-class. Some women shopkeepers did aim to become part of the middle-class but their social motivation was closely associated with economic considerations.

As a group, shop-keeping wives were moving in the 1890s towards the family consumer economy in which items hitherto regarded as luxuries by the working-class became necessities. Mrs M. 3. B., whose father was a shipwright, related how her mother opened a shop in her front parlour in the 1890s so that she could afford to send her five children to the Higher Grade School.⁴⁹ They all worked very hard to improve their standard of living by buying their own home, smart clothes, holidays and good, plentiful food. Consumerism was seen to bestow security and status. The standards set by the shopkeepers were slowly but increasingly aspired to by other working-class women, and former luxuries became necessities.

Movement towards the era of the family consumer economy should not, however, be overemphasized or predicated. It was by no means completed by 1940 when many families still lived on or near the poverty line. What appears to have happened is that wives of men earning wages around the poverty line started work to raise their families' standard of living above that of mere subsistence. The degree to which that standard was raised depended on a complex series of variables: the number and spacing of the children (too many children too close together meant that even part-time work was difficult for some years, but on the other hand a large number of children contributed handsomely to the family wage at a later stage of the life cycle); the hours worked and wages received by the wife; the regularity of the husband's employment;

the pattern of family expenditure including the costs incurred as a result of the women's work and the wife's budgeting ability. As a consequence of the interaction of these variables some families, even with the mother earning, never succeeded in enjoying more than a poor standard of living. In other families, originally poor, there was an imperceptible shift from a woman's earnings being essential for adequate food, clothing and shelter towards a position where sufficient income was earned and enough savings made to enable the family to acquire goods and services hitherto unattainable.

Two illustrations, one from Barrow and one from Preston, illustrate this tendency. Mr P. I. B's father was a labourer in the steelworks earning a basic 18s. a week. There were six children. Like other wives of unskilled men, Mrs P. felt a great need to earn money to help feed her family but like them she had no money to open a shop. She was also handicapped by her own illiteracy. Consequently she devised an ingenious and possibly unique way of making money.

She used to go to the saleroom and bid on things . . . anything she thought was going cheap she'd buy it, leave it there, go the following week and let it go again and she'd bid it and make a bob or two that way.

She managed eventually to make more than 'a bob or two' and was able to buy her own home and one for each of her children.⁵⁰ Miss T. 4. P.'s father was a 'scutcher' in the cotton mill earning only 18s. a week at the turn of the century rising to about £2 when he died in 1919. Even before his death Mrs T. had to work as a weaver. This she continued to do and was joined fairly rapidly by her three daughters. With two looms the girls earned only 13s. a week and so there was little chance of Mrs T. stopping work when they began. Gradually, however, savings were accumulated from the pooled family wage and by 1928 Mrs T. was able to buy a newly-built house, with a bathroom and garden.⁵¹

While the economic need of the family was the chief factor in determining married women's working patterns, of less importance was the apparent availability of work. Preston and to a smaller extent Lancaster, did undoubtedly give more opportunities for full-time paid employment for women than did Barrow, as is illustrated in the census returns. Part-time work (*which may or may not have been enumerated*)⁵² seems to have been available as and when it was required in all three towns. Oral evidence, while recording many instances of men seeking, but failing, to find work, does not indicate women failing to find part-time work. The same cannot be said of women seeking full-time work. In the years of the depres-

sion women textile workers experienced difficulties in finding work as is evidenced in both oral and documentary sources.⁵³

A more complex question is the relationship between the availability of women's full-time work and general wage levels. The generally lower levels of men's labouring wages in Preston as compared with those in Lancaster and Barrow does suggest that employers' calculations of wage levels were influenced by the expectation that married women and children, when they were old enough to do so, would work and contribute to the family wage. This was the view expressed in *Man Without Work*. The investigators wrote of Blackburn (only nine miles from Preston and economically similar): 'Wages have always been fixed in Blackburn on the assumption that several members of the family will be working' and 'the wages in most of the Lancashire cotton towns assume the double earnings of man and wife. The husband's wage alone would reduce many families into poverty and it was consequently necessary for the wife to earn all the time'.⁵⁴

The existence of a large number of married women textile workers had another curious effect on Preston's family wages. Considerable expense was incurred by the full-time working mother, although as will be seen, these expenses, while reducing her own earnings, did spread her income to other families where the women did the washing, cooked or baby-minded for the cotton operative.

The phenomenon of the working mother cannot, however, be looked at solely in economic terms. There were social and familial consequences of her working.

A married woman's employment did affect her relationship with her husband and here there seem to be significant differences between Preston and the other two towns. In Barrow and Lancaster it was unusual for a man to do domestic work in his own home, except on occasions tasks which could be construed as 'Man's work', i.e. repairs to furniture and the fabric of the house and decorating. Sometimes this was the man's choice, sometimes the woman's but was typical of both labourers' and artisans' families.

Before that [i.e. when he retired] he wouldn't lift a pot, wash a pot, lift a hand at nothing.⁵⁵

[Did he do anything in the house?]

My father! He wasn't allowed to.⁵⁶

Oh give him a hammer and we wouldn't have had a house. I don't think he knew the end of a nail. If my mother wanted a shelf putting up, she put it up.⁵⁷

Sometimes men like this Preston patternmaker rationalized their lack of involvement in domestic work.

'Every man to his trade' that was his motto . . . he said that if everybody did one another's jobs, they would all be out of work. He was a real Union man.⁵⁸

Whether or not the wife worked part-time or not at all, there was a substantial degree of role separation within marriage. This was universally accepted and did not appear to create friction. The position in Preston was complicated. There were families like the one above where the role separation between husband and wife was complete but in families where there was a full-time working mother matters were very different.

He seemed to always do the Sunday dinner. He would clean up and wash up.⁵⁹

Mrs W. I. P. was a ring spinner,

I used to get them for the night after, if it was chops and onions I used to cook them and he would be home before me and he would warm them in the frying pan . . . I never wound a clock up in all my married life, I never made a fire and I never chopped wood and I never made a bed. He did all that whenever he had his tea and washed his hands . . . He was very good. I would be washing up at 1 o'clock in the morning and getting up at 5'clock to go to work. He would look to the boy and I would look to the girl.⁶⁰

Husbands with full-time working wives helped in the home because without that help it is doubtful if their wives would have survived at all. Indeed when one looks again at the role relationships within marriage in non-textile families in all three towns, it is clear that there, also, husbands helped when it seemed vital to do so, usually in times of the wife's illness.

Elizabeth Bott in *Family and Social Network* investigated the subject of segregated conjugal roles.⁶¹ Although her work was concerned with families in the 1950s, she postulated a theory which could have an earlier application. She argued that the degree of segregation of conjugal roles is related to the degree of connectedness in the total network of the family, those families which had a high degree of segregation in the role-relationship of husband and wife also having a close-knit network, many of their friends, neighbours and relatives knowing one another. Certainly this model could explain the segregated conjugal roles in Barrow and Lancaster where the great majority of families did have these close-knit networks. However, the study of Preston reveals the difficulty of applying sociological models to every occupational group. Husbands and wives in Preston textile families also had closely knit networks of neighbours and relatives, and yet there was noticeably less segregation in their conjugal roles. This does suggest that

patterns of women's employment cannot be ignored in the study of role-relationships within marriage.

But despite the different roles displayed towards housework, there is no oral evidence to support the argument that full-time working wives and mothers exerted more power and influence within their marriage than did their contemporaries with part-time or no paid work. Diana Gittins argued that 'the power relationship would depend on the wife's working or not working.'⁶² This was not the case; some of the most powerful women in all three towns, who were not so much their husbands' equals but rather the dominant partner in the marriage, worked either part-time or not at all.⁶³

Whole-relationships within marriage are a complex subject and, like so many other aspects of this chapter, require much fuller treatment than is here possible; but they were affected by social and familial network patterns, the woman's employment, her control of the family's budget, the husband's drinking habits and the husband's occupation. (There were not many dominant patriarchs but those there were tended to be skilled craftsmen.)

It has long been accepted that textile workers limited their families. In 1832 Dr James Blundell informed a parliamentary committee that 'Where individuals are congregated in factories I conceive that means preventive of impregnation are more likely to be generally known and practised by young persons.'⁶⁴ Ethel M. Elderton reported in 1914: 'The most striking thing in the table seems to be the association between the presence of textile factories with consequent industrial employment of women and a rapid fall in the birth rate . . . It is probable that the woman who works in the factory meets more people and the knowledge gained by one woman reaches a far wider area than when her acquaintance is limited to people in the same street or village and thus in the textile districts knowledge as to the possibility of a limitation of the family is more widespread.'⁶⁵ The Fertility of Marriage Census of 1911, from which many subsequent historians drew their data,⁶⁶ not only argued that textile workers (be it men or women) had low fertility rates⁶⁷ but also that their patterns of fertility affected those of the area in which they lived. 'The low fertility of the textile industry is very largely shared by the general population of the area in which it was carried on.'⁶⁸

These arguments present us with some problems, for there is no evidence that fertility rates in textile Preston were different from those in non-textile Barrow or from the national average as the following table shows.

Table 2 Legitimate Fertility Rates for Married Women aged 15-44 in 5 year averages⁶⁹

	<i>England & Wales</i>	<i>Preston</i>	<i>Barrow</i> ⁷⁰
1891-5	259.2	275.6	259.8
1896-1900	243.6	256.5	237.8
1901-5	231.2	232.8	259.4
1906-10	213.5	211.6	223.1
1911-15	190.5	182.3	212.5
1916-20	158.1	144.1	210.7
1921-25	157.3	152.3	145.4
1926-30	130.9	125.0	123.6
1931-35	117.9	113.9	111.7
1936-40	116.7	111.6	128.5

The Fertility of Marriage Report, however, provides a possible explanation of Preston's apparently not unusual fertility rates. It admits to 'a source of fallacy'; 'the figures available show only fertility by husbands' and wives' occupations respectively, without reference in either case to that of the other spouse'.⁷¹ Oral evidence indicates that women weavers with low fertility were frequently married to general labourers or members of other occupational groups appearing in the top 10 per cent of the most fertile men. One must presume that the fertility patterns of the husband's occupational group were more important than those of the wife. Oral evidence also indicates that women weavers were likely to have smaller families than women in general because they frequently (but not always) gave up weaving when their family began to grow, for it was expensive to have children minded (see pp. 157-9). In other words a woman's job was not so likely to affect her fertility rate as was her fertility rate likely to affect her employment. Women with growing families were likely to opt for part-time work. For the sake of her children and herself there was a point, usually before the birth of her fourth child, when it seemed more sensible to work part-time. In Preston only one woman with more than four children continued as a weaver.⁷² In Lancaster there was also only one and she died when she was 32.⁷³ Conversely a woman's ability to carry out part-time work does not appear to have been affected by the number of children she had. In Preston 42 per cent of those in part-time work had more than six children, in Lancaster it was also 42 per cent and in Barrow 47 per cent.

What has *not* emerged from oral evidence are women weavers who were noticeably more informed on sexual matters than other women. Oral evidence is limited on the subject of sex and contraception, for traditional reticence on these matters still prevails;

but what evidence there is reveals that even in the 1920s and 1930s there was still widespread ignorance and that textile workers were as likely to be ignorant as other sections of the population. On the whole, the women who are willing to discuss this subject are anxious to point out that neither they nor their mothers deliberately limited their families. Conversely the women who are not anxious to discuss the matter are those with small families who might well have practised some form of contraception. These attitudes also suggest that birth control, although practised, was not regarded as a matter for pride or discussion. There is no evidence that women discussed sexual topics in the mill. The usual sources from which girls picked up the basic 'facts of life' are given as siblings and friends. Married women learned them from husbands and neighbours. Mrs B. 1. P. was a weaver before and after marriage.

[Did you want a big family, four is quite large isn't it?]

It is . . . I mean we never thought of it. They just came and that was that. I mean I was as green as grass when I got married and I don't think my husband were much . . . brighter. No, they just came . . . I would never like my children to be brought up in such ignorance . . . Well my first baby was born on a Tuesday and on the Saturday [before] I said to my husband "I'm bothered . . . how can a baby come out?" . . . I was terrified of this (i.e. her stomach) bursting. He said "But they don't come out there" so I said "where do they come out?" and he said "Where it goes in" and do you know, I nearly died!⁷⁴

Mrs P. 1. P. also worked as a weaver before and after marriage and had six children in the 1920s and 30s:

I went to the Infirmary again. There must have been tears in my eyes because I was thinking about keeping [i.e. feeding] them. He said "It's no good now it's too late". I felt like saying that it wasn't the woman's fault all the time. You are married and you have got to abide by these things you know . . . we would never take anything in those days. God has sent them and they had to be there. I'm not a religious person but that were my idea.⁷⁵

Some respondents, of course, from all three towns had only one or two children. All that can be said about them with any certainty is that their incidence is not apparently connected with any particular occupation of either husband or wife.

Respondents who did not have, and were not themselves, full-time working mothers, assumed that children were better cared for if their mothers were at home for at least part of the day.⁷⁶ At the turn of the century there was a substantial body of official opinion which supported this view. Babies especially were considered to be at risk if their mothers worked. Preston's Medical Officer of Health reporting in 1902 on the causes of the high rates of infant mortality there noted: 'first among these causes is the employment

of female labour in the mills . . . the return of a mother to her work within a short period after confinement, thus depriving the infant of a mother's care and of the sustenance which nature intended for it, constitutes even a still greater evil.'⁷⁷ In 1906 Sir George Newman published *Infant Mortality: a Social Problem* in which he drew attention to the apparently significant correlation between high rates of infant mortality and high percentages of married women in full-time work.⁷⁸ Newman's work has had a wide influence. Margaret Hewitt, generally sympathetic to the cause of the married cotton operatives, conceded that their employment endangered the lives of their babies.

This argument was originally supported by the present historian. Certainly the figures for Preston, Barrow and Lancaster would seem to confirm it.

Table 3 Infant mortality(deaths under 1 year per 1,000 live births) 1896-1901 and percentage married women in full-time work, 1901.⁷⁹

	<i>Barrow</i>	<i>Lancaster</i>	<i>Preston</i>
Infant Mortality	162	172	236
Per cent married women in full-time work 1901	5.8%	10.2%	30.5%

Medical experts were united during the early decades of the century in condemning bottle and/or artificial feeding for babies, a principal cause of infant deaths from diarrhoea. In 1911 Preston Health Visitors investigated the homes of 111 babies who had died of this illness and found that 96 of them had been artificially fed.⁸⁰ Obviously mothers who worked in the cotton mill were much less likely to be able to breast-feed their babies than other women and oral evidence gives a frightening picture of bottles with long rubber tubes which were incapable of being adequately washed, still less sterilized.

Statistics from elsewhere, however, reveal the immense complexity of the whole subject of infant mortality. There is in fact no clear correlation between high rates of infant mortality and a high percentage of married women in full-time work. Manchester in 1901 had only 19 per cent of its married women in work and yet an average infant mortality rate of 211. Conversely Haslingden with 28.7 per cent of married women at work had a comparatively low average infant mortality rate of 163. The inconsistencies are numerous and it is clear that one cannot make a simplistic mono-

causal explanation for high rates of infant mortality, an argument developed very convincingly by Carol Dyhouse in *Working-class Mothers and Infant Mortality in England*.⁸¹ Preston itself shows the difficulty of relating infant deaths to women's employment. In 1901, with 30.5 per cent of married women in work, the average infant mortality for the previous five years was 236. The comparable figures for 1911 and 1906-10 are 35 per cent and 161, i.e. more married women worked but fewer babies died. Does this mean that women working actually improved their babies' chances of survival by raising the family's standard of living? In 1908 a survey in Birmingham carried out by the Medical Officer of Health showed that the mortality rate among infants whose mothers worked was 190 while the rate for those whose mothers were at home was 207.⁸²

The causes of infant death, the reasons for variations in mortality rates between areas, and explanations for the decline in these rates during the century continue to be debated by social and medical historians and by demographers. The whole question is complex and cannot be developed in this chapter; its complexity is best indicated by pointing out that the fall in Preston's infant mortality rate between 1901 and 1911 coincided with a rise in the percentage of married women employed, a completion of the replacement of earth privies with water closets, the appointment of the first Health Visitors and first qualified midwives and a drop in the zymotic disease rate.

Older children were also affected by their mother's work. Under school age children were brought up by child-minders, oral evidence indicating that the most usual minder was either a grandmother or aunt. Only a minority were cared for by non-relatives, these being usually neighbours. These patterns of child care persisted throughout the period but are strangely neglected in the Medical Officer of Health Reports. However, in 1930 the Health Visitors reported that of 35 children aged 0-2, not cared for by their mothers, 18 were left at home with relatives, 13 were cared for in the homes of relatives and only five were cared for by strangers.⁸³ The Health Visitors reported that the children were well-cared for and in good surroundings. There is little oral evidence either to suggest that these children were not well-cared for according to the standards of the time. Only one respondent expressed her unhappiness at having to leave her children and her anger when she discovered that the minder had not taken the child to the doctor as instructed. On another occasion she found the child wet and believed her nappy was not changed often enough.⁸⁴

Being brought up by a familial and neighbourhood group was an experience shared by many working-class children regardless of their mother's occupation. Mr T. 3. P.'s sister chose to spend a large part of her time with her grandmother.

[Why did your sister live with your grandma?]

Well she wanted to go only for a short time and then she would come back home and then go back to her grandma. She stuck to her grandma until she got married.⁸⁵

Mrs M. 3. P. worked as a charwoman three days a week in the 1920s and 30s but her mother and sister looked after the children even when she was at home because they enjoyed doing it.

Many a time she had them when I was at home . . . my two elder children never knew what sweets were only when grandma came . . . My sister helped bring the children up too . . . she used to take them out . . . She was proud of them. She's not married. They are as much her children as mine, in a sense.⁸⁶

These close familial relationships required, of course, the extended family to live in close proximity and this was very common especially in Preston. Even in a town of migrants like Barrow, extended families both existed and lived near to each other, they migrated as a group and settled together, the bonds between them strengthened by their shared experiences.

When relatives could not care for a child, then a neighbour had to be asked, often an older woman no longer able to cope with the rigours of the mill. There is no evidence of unkindness or ill-treatment and only one woman already mentioned complained of neglect. (Her complaints are interesting, as is all her evidence, because it illustrates that even in the very poorest strata of society much more interest in matters of child health, hygiene and feeding was developing in the 1920s. Unfortunately again, changing patterns of child care is too large a topic to be dealt with here.) Many child-minders had an undoubted affection for their charges,

She loved children did my mother, she minded them for people while they went to work, did my mother.⁸⁷

Apart from the safeguards this kind of affection could bring, working-class neighbourhoods exercised a powerful system of social control as this respondent realized. (Both he and his brothers and sister were minded by a neighbour after his grandmother's death.)

It had to be a reliable person . . . you often came to the point when it would be "Oh *not* her" and this was bush telegraph in the mill . . . our baby-minders, they were neighbours, they had to be good otherwise you were across the road and you got a bad name if you were a bad minder.⁸⁸

There were few social fates worse than 'getting a bad name'.

Whilst standards of care were generally acceptable to the parents of the day, there was one effect of children being minded which should be mentioned. Mothers who worked full-time were always expected to pay their baby-minder, whether related or not, and however attached the minder was to the child.

She (i.e. his wife) would pay. You wouldn't get my mother to do anything like that unless you gave her something.⁸⁹

Conversely there is no evidence of mothers who worked part-time ever paying their minders (they needed them much less of course). Child-minding costs further reduced the full-time working mother's disposable income.

When the wife and I worked, . . . her sister lived next door but one. We paid her for minding our oldest child David and he would be about two when Ella went out to work. We paid 10s a week for him being minded . . . I know it happened one week the wage was 18s and she had to pay her sister ten so she worked all week for 8s. She went to her mother's for her dinner and paid her and I went to my father's and paid there. So we were actually out of pocket sometimes.

[Can you remember how much you paid for your dinner?]

I think about 6d a day.⁹⁰

Michael Anderson, writing of Preston in 1851 suggested that 'some children were interacting with their parents in a manner which can only be described as a short-run calculative instrumentality . . . Social relationships of any significance were only being maintained by a considerable section of the population when both parties were obtaining some fairly immediate advantage from them . . . In other words when exchanges were reciprocal and almost immediate.'⁹¹ While there is no evidence of this calculative attitude to kin in Lancaster and Barrow, it can be said that in Preston, in textile families where there was a wage-earning woman in full-time work, then her relationship with her kin did have a financial dimension which is absent in the relationships of other women with their kin.⁹²

The school children of working mothers were expected to work very hard in the house and to accept many responsibilities.⁹³ Many were expected to prepare the midday meal, others were in charge of getting their smaller brothers and sisters out of bed, giving them breakfast and taking them to the baby-minder. Then there was a busy time in the evening with more tasks.

You had to scrub the backyard and sometimes you'd help with the washing and washing was done at night after work.⁹⁴

School children would be left for a long period after school, unsupervised.

Then after school we simply played in the street till mother came home. There were fairly rigid rules about it. For instance you were not allowed to let other children

into the house. On one occasion I did when it was raining . . . when mother came home she was furious . . . I think it meant that mother didn't know what was going on when she was away.⁹⁵

This supervision 'from a distance' was obviously not as satisfactory as that extended by an adult on the spot. There was a clear possibility of accidents, although none are recorded in the samples. (Curiously, all the accidents mentioned were burns and scalds which happened in the home when adults were present.) The physical and social environment of children in the earlier decades of this century were different from more recent days, as were attitudes to child care. There was very little traffic on the street, for instance, all children, whatever their mothers' occupation, 'played out' for long periods, there being little room in small terraced houses, and this outdoor play was not supervised directly by the mother. This is not to say the children were uncontrolled: each neighbourhood had a set of mores which prescribed acceptable and unacceptable behaviour and were administered by sharp-tongued neighbours and occasionally by the word or cuff or simply the presence of the local policeman.

Some historians and respondents believe that working mothers fed their families on a diet which was limited, expensive and unnutritious. There does appear to have been a difference between the diet of families where the mother worked full-time and where she worked part-time or could afford not to work at all. In her book *Wives and Mothers in Victorian Industry*, Margaret Hewitt examined the effects of women working full-time in the Lancashire cotton industry. She concluded that *in general* working-class standards of housewifery were so low that women going out to work made very little difference. 'The truth of the matter', she concludes 'was that amongst the working-classes in general, the standards of domestic accomplishment were deplorably low.'⁹⁴ Robert Roberts, writing of Salford at the turn of the century explained why, in his opinion, this was so. 'Many working women among our 3000 engaged as they were all day in weaving, spinning and dyeing trades, had little time to cook or indeed to learn how to, since their mothers before them had often been similarly occupied in the mills. This, I think, contributed to the low culinary standards which existed in the Lancashire cotton towns before the First World War.'⁹⁷

These comments require some elaboration in view of the oral evidence from Barrow, Lancaster and Preston. Firstly, in Barrow and Lancaster there is no evidence of low culinary standards in working-class homes; indeed there is an abundance of evidence of women able to feed their families on a very varied, inventive, economical and nutritious diet. And virtually all the women re-

spondents speak of learning the skills of cooking from their mothers who, in turn, had learned them from their mothers.⁹⁸ The position in Preston was very much more complex. There were certainly women who were feeding their families in exactly the same way as their counterparts in Barrow and Lancaster. This is perhaps not surprising in view of the fact that the majority of working-class women were not working full-time in the cotton mills and that consequently they had time to cook and in due course had time to teach their daughters how to cook. There was also, however, what can be described as a textile diet, the one experienced by the families of women who worked most of their time in the mills.

When parents went out to work, cooking was a problem. Up and down town we had cook-houses. They went to work at 6 o'clock and then they came home at half past eight. They would come home and see if their children were all right, ready for school and had had their breakfast. The night before they would make a hotpot and they would cook potatoes, meat and onion. They would put it all in layers. Now they had bakehouses and when you were going to school at 9 o'clock, the oldest one would take this hotpot to the bakehouse and he would cook it for you while you were at school. Now at 12 o'clock when you were out, the first job that you did, you went to the cook-house and you got this hotpot. You took a towel with you and wrapped it round you and took that home. The mills closed at half past twelve till half past one. They came home and you had a hot dinner ready . . .

[What else would you have for your dinner?]

There was a tremendous lot of chip shops in Preston. They weren't cheap though. You could buy meat and potato pies . . . they were only 2d. Say you had a family of 5 or 6 and parents . . . if you bought pies, that would be sixteen old pence. You could make one of these hotpots for half as much as that.⁹⁹

This extract indicates the often quoted elements of the textile diet — hotpots, pies, fish and chips (there was also tripe, which was another ready cooked food). It also shows the effort and organization needed to see that a hotpot was provided (though it should also be noted that by letting women come home, albeit briefly at 8.30 am, full-time work was adapted to the needs of married women). The extract also indicates the temptation there always was to choose instead the ready cooked meat and potato pie which appears to have had little of the former ingredient. These textile diets rarely included vegetables and puddings, except at weekends. They were monotonous, lacked vitamins, and, with their reliance on pastry and fried foods, probably contributed to the stomach disorders mentioned by some respondents. These foods were, of course, convenient; but, as the respondents point out, this facility, then as now, was expensive. The textile diet persisted up to the Second World War. Mr B. 9. P. was born in 1926, his mother was a weaver almost uninterruptedly until the family left Preston in 1937.

I never remember my mother cooking. I am sure she must have done but I don't remember it . . . food seems to have been potato based with a lot of bread . . . We had fish and chips occasionally and tripe and trotters and pies.¹⁰⁰

When he finally got to the grammar school (in Yorkshire!), his teachers noted on his record that he was undernourished. Over time this diet persisted and increased in quantity. It also became a more important feature of diets in families where the mother did not work full-time. Trade directories indicate a dramatic increase in the provision of shops selling convenience foods. In 1892 there was one fish and chip shop in Preston to 1530 people; by 1936 there was one to 345. Similarly in 1892 there was one confectioner to 853 people; by 1936 there was one to 260.¹⁰¹ Unfortunately there is no oral evidence about the 'textile diet' from before 1890 when there were no chip shops!¹⁰² One cannot say that families of textile workers ate well; one can argue that if the mothers had not worked their families might well have eaten a lot less.

Before the Second World War, when very few modern labour-saving devices were to be found in their homes, all working-class women had to work very hard. Those who had also to go out to work full-time often carried an almost unimaginable burden of endless toil. Women who undertook part-time jobs appear to have enjoyed the double satisfaction of contributing to the family income and of being able to devote energy and attention to the needs of their families. Rowntree worried about the 'deadening monotony' of working-class women's lives; but Scott and Tilly have warned that 'we ought not to apply middle-class standards of education and leisure to working-class women's activities'.¹⁰³ Respondents, too, are aware of changing perceptions and express ambivalent attitudes.

My mother, their life, well they had no life. It must have been a terrible life. It was all work. It was really drudgery. But they enjoyed it. It was their family and they lived for their families. It wasn't drudgery to them.¹⁰⁴

Appendix

Respondents (in the order in which they appear in the chapter).

B. L. P. at the end of each respondent's initials indicate whether they came from Barrow, Lancaster or Preston.

Mrs P. 2. B. Born 1902. Father a boilermaker, one child. Mother a cook before marriage and a cleaner when widowed. Mrs P. 2. B. became a clerk. Two children. Married a fitter and turner.

Miss H. 4. L. born 1883. Father a colour mixer in Storeys Mill. One child. Mother before and after marriage a weaver. Miss H. 4. L. was a weaver all her life.

Mr T. 3. P. born 1886. Father an outdoor labourer, seven children born, four survived. Mother a warper before and for a brief time after marriage. As children grew up she was a part-time washerwoman and charwoman. *Mr T. 3. P.* became a shuttlemaker, then lost an arm, was unemployed for a long time and finally became an insurance agent. His wife (m. 1909) was a weaver before and after marriage. Three children, two survived.

Mrs B. 1. P. born 1900. Father was a moulder. Married three times. *Mrs B. 1. P.* had two half-sisters, three brothers and sisters of whom two survived and 13 step-brothers and sisters of whom ten survived. *Mrs B. 1. P.* was a weaver before marriage. She married a weaver who eventually became a tackler. She worked very episodically as a weaver but not after the birth of the second of her four children.

Mr G. 1. P. born 1903. Father was a slasher (wages 18s.). Eight children, six survived. Mother was a weaver before and after marriage until the children started work. She died aged 40 in 1920. *Mr G. 1. P.* became a weaver and later a warehouseman. His wife was a weaver before marriage and after until the birth of her second child. Five children, four survived.

Mr M. 1. B. born 1892. Father was a railway labourer, twelve children, ten survived. Mother a domestic servant before marriage, no job after. *Mr M. 1. B.* became a grocer's assistant in the Coop and later a Coop shop manager. His wife before and after marriage had a small shop which failed in the Depression. One child.

Mr F. 2. B. born 1900. Father a postman (formerly a tailor). Mother a domestic servant before marriage, no job after, three children. *Mr F. 2. B.* became a clerk on the railway, unmarried.

Mrs A. 1. L. born 1908. Father a labourer, two children. Mother a weaver before marriage, no job after. *Mrs A. 1. L.* became a weaver. No children.

Mrs A. 2. L. born 1907. Father a gardener, two children. Mother a weaver before marriage, no job after. *Mrs A. 2. L.* became a confectioner and married an electrician. One child.

Mr P. 2. L. born 1899. Father a labourer, nine children. Mother a confectioner before marriage, no job after. She died aged 40 in 1912. *Mr P. 2. L.* became a labourer. Two children.

Mrs S. 3. P. born 1892. Father was a carder, ten children, eight survived. Mother a mill-worker before marriage and for sometime after but in the respondent's memory was always an invalid with serious epilepsy. *Mrs S. 3. P.* became a ring spinner. She was only married for four days before her husband returned to France in the First World War and was killed. No children.

Mrs P. 1. P. born 1898. Father was a blacksmith. He deserted the family and died when the children were young. Five children, four survived. Mother was a hawker. *Mrs P. 1. P.* was a weaver before and after marriage (until after the birth of her second child). She later did part-time domestic work. Her husband was an outdoor labourer. Six children, four survived.

Mrs A. I. P. born 1910. Father was a patternmaker, five children, four survived. Mother a winder before marriage, no work after. *Mrs A. I. P.* became a weaver before and after marriage in 1940. Her husband was a printer. No children.

Mrs S. I. L. born 1898. Father a tinsmith, three children, two survived. Mother a weaver before marriage, no job after. Died in childbirth 1906. *Mrs S. I. L.* became a shop assistant, (part-time after marriage). Husband a railway labourer. Three children.

Mrs M. 3. B. born 1886. Father a shipwright, ten children, five survived. Mother a cook before marriage, opened a shop in her own home after marriage. *Mrs M. 3. B.* became a pupil teacher and eventually (aged 32) married another teacher. No children.

Mr P. I. B. born 1900. Father a labourer at the Steelworks, six children. Mother a labourer in the Jute Works before marriage, after marriage, dealing in the Auction Rooms. *Mr P. I. B.* became a fitter and turner. Three children.

Miss T. 4. P. born 1912. Father was a scutcher, five children, four survived. Mother a weaver before and after marriage. *Miss T. 4. P.* became a weaver and remained one. Unmarried.

Mr M. 3. L. born 1906. Father a foreman joiner, three children, two survived. Mother a domestic servant before marriage, no job after. *Mr M. 3. L.* became a joiner and he married a girl who kept house for her father and brothers. Two children.

Mrs S. 2. B. born 1895. Father a labourer in the Steelworks, ten children. Mother went out nursing in homes and took in sewing. *Mrs S. 2. B.* was a tailoress. She married a labourer. Four children.

Mrs H. 2. B. born 1885. Father a carter for the railway, four children. Mother a domestic servant before marriage, after took in lodgers and sewing. *Mrs H. 2. B.* became a dressmaker and married a shop assistant. She had her own shop after marriage. No children.

Mrs W. I. P. born 1899. Father a labourer in the Gasworks, nine children, eight survived. Mother died aged 32, no work, family brought up and partially supported by father's aunt. *Mrs W. I. P.* became a ring spinner. Her husband was a commissionaire. Two children.

Mrs B. I. L. born 1888. Father a labourer in a mill, five children. Mother a weaver before and after marriage. Died aged 32. *Mrs B. I. L.* became a weaver, after marriage she took in lodgers and returned to weaving to send one of her daughters to grammar school. Her husband was a labourer. Four children.

Mrs M. 3. P. born 1898. Father a checker on the Docks, seven children, three survived. Mother a dressmaker before marriage, a part-time charwoman. *Mrs M. 3. P.* became a weaver and then worked in an electric lamp factory. After marriage she was a part-time charwoman. Her husband was a laboratory technician but was unemployed for long periods. Five children.

Mrs H. 3. L. born 1903. Father a weaver (at the Matting Mill), mother in domestic service before marriage and baby-minded and took in washing and sewing after marriage, ten children, seven survived. *Mrs H. 3. L.* became a weaver and worked periodically after marriage. Her husband had many jobs but spent most time as a stripper and grinder. Three children.

Mr T. 2. P. born 1903. Father a slasher's labourer, seven children, three survived. Mother a weaver before and after marriage. *Mr T. 2. P.* became a weaver, a munitions worker and finally worked on the railway. He married a worker from a biscuit factory. One child.

Mr B. 9. P. born 1927. Father a waiter, two children. Mother a weaver before and after marriage but also a washerwoman between weaving jobs. *Mr B. 9. P.* became a teacher, later a lecturer.

Mrs M. 1. P. born 1913. Father a fitter and turner, six children, five survived. Mother a weaver before marriage. After marriage, occasional baby-minding. *Mrs M. 1. P.* became a carder and later a shop assistant. Married an airman who was killed in 1945. Two children. Continued as a shop assistant.

Notes

¹ *Census of 1901*, Table 31, 13.2% of married and widowed women were in work. *Census of 1911*, Table 25, 13.6% of married and widowed women were in work.

² *Social Trends*, No. 8, 1977, HMSO, 1977, p.82. Table 5.3

³ Margaret Hewitt, *Wives & Mothers in Victorian Industry* (1958), M. Hewitt presents a thorough review of the generally critical attitudes of the middle and upper classes to the working wife and mother in Victorian England.

⁴ The evidence is taken from two SSRC-funded research projects, carried out under the aegis of the Centre for North West Regional Studies in the University of Lancaster. The first project, (which developed out of an initial pilot project assisted with a Nuffield Small Grant) took place in the years 1974-76 and was concerned with working-class social life in Barrow and Lancaster 1890-1930. The second project is a similar one in Preston but covers a longer period 1890-1940. In the Barrow and Lancaster project 200 interviews were carried out with 95 old people. In the Preston project 140 interviews have been carried out with 66 people. These interviews are transcribed, indexed and are available for consultation by researchers in the University of Lancaster library.

⁵ *Census of 1891*, Vol. 1. Table 4.

Census of 1921, County of Lancaster, Table 1.

Census of 1931, County of Lancaster, Part 1, Table 3.

⁶ *Census of 1901*, *ibid*, Table 35a.

Census of 1911, County of Lancaster, Table 25.

⁷ *Census of 1891*, *ibid*, *Census of 1931*, *ibid*.

⁸ *Census of 1901*, *ibid*, *Census of 1911*, *ibid*.

- ⁹ *Census of 1891*, *ibid*, *Census of 1931*, *ibid*.
- ¹⁰ *Census of 1891*, *ibid*, Table 7.
Census of 1931, *ibid*, Table 16.
- ¹¹ *Census of 1901*, *ibid*, *Census of 1911*, *ibid*.
- ¹² *Census of 1891*, *ibid*, Table 7.
Census of 1901, *ibid*, Table 35.
Census of 1911, *ibid*, Table 13.
- ¹³ Louise Tilly & Joan Scott, *Women, Work & Family*, (1978), p.213
- ¹⁴ *Census of 1901*, *ibid*, Table 35a
Census of 1911, *ibid*, Table 25
Census of 1921, *ibid*, Table 16
Census of 1931, *ibid*, Table 16
- ¹⁵ Mrs P.2.B. Brief biographical details of respondents quoted in this chapter appear in Appendix 1, p.162.
- ¹⁶ 48 respondents were interviewed in Barrow, 47 in Lancaster and 66 in Preston. The percentages of women given as having part-time work are percentages of the total number of married women having paid part-time occupations in the period 1890-1940. In some families both mothers and daughters are enumerated, in the cases of younger respondents married after 1940, only their mothers' employment is counted.
- ¹⁷ Miss H.4.L.
- ¹⁸ Michael Anderson, *Family Structure in Nineteenth Century Lancashire* (1971) p.71-72
- ¹⁹ Osamu Saito, 'Who worked when? Lifetime profiles of labour force participation in Cardington and Corfe Castle in the late eighteenth and mid-nineteenth centuries'. *Local Population Studies No. 22* 1979. This article contains interesting age specific profiles of female participation in the labour force in these small communities.
- ²⁰ *Census of 1921* Table 18
- ²¹ Royal Commission on Population Vol. I. (1949) [Cmd 7695] chap. VII.
- ²² Those wishing to analyze theoretically the relationship of married women's work and economic systems will find useful, V.K. Oppenheimer; 'Structural sources of economic pressures for wives to work. An analytical framework'. *Journal of Family History* Vol. 4 No. 2, 1979, p. 177. Dr Oppenheimer uses data from USA in the post-war period.
- ²³ B.S. Rowntree, *Poverty and Progress*, (1941), pp.28-9
- ²⁴ L.A. Bowley & M.H. Hogg, *Has Poverty Diminished?* (1925), p.37
- ²⁵ D. Caradog Jones, ed., *The Social Survey of Merseyside* (1934), Vol. 1. p. 150
- ²⁶ B.S. Rowntree, *Poverty and Progress*, (1941), pp.28-9
- ²⁷ Elizabeth Roberts, 'Working-class standards of living in Barrow & Lancaster 1890-1914'; *Econ. Hist. Rev.* 2nd ser. Vol. XXX No. 2 1977. This article lists the documentary sources for these figures.

²⁸ Mr T.3.P.

²⁹ *The Preston Weavers, Winders & Warpers Association, Cases & Complaints Book*, 1904-09. Lancashire Record Office, BOX 1089.

³⁰ Mrs B.1.P.

³¹ Mr G.1.P.

³² Census of weavers' wages taken by the Amalgamated Weavers Association in *Preston & District Power Loom Weavers Winders & Warpers Association Wages Calculations Book*, Lancashire Record Office. DOX 1089

³³ L. Tilly, J. Scott, M. Cohen, 'Women's work & European fertility patterns' *Journal of Interdisciplinary History*, VI. (1976) p.462

³⁴ Mr M.1.B.

³⁵ Mr F.2.B.

³⁶ Mrs A.1.L., Mrs A.2.L. and Mr P.2.L.

³⁷ Elizabeth Roberts, op.cit.

³⁸ Mrs S.3.P.

³⁹ L. Tilly and J. Scott, *Women Work & Family*, p.176

⁴⁰ L. Tilly, J. Scott, M. Cohen, 'Women's work & European fertility century Europe' *Comparative Studies in Society & History*, 17, (1975) Tilly and Scott made this point about nineteenth-century working-class and peasant women in Europe. The tradition remained powerful in Barrow, Lancaster and Preston well into the twentieth Century.

⁴¹ Mr G.1.P., op.cit.

⁴² E.P. Thompson, *The Making of the English Working Class*, (1968), p.392-3.

⁴³ Mrs P.1.P.

⁴⁴ Mrs B.1.P., op.cit.

⁴⁵ Mrs A.1.P.

⁴⁶ Mrs S.1.L.

⁴⁷ A.H. Halsey, *Changes in British Society*, (1978), p.101.

⁴⁸ Eleanor F. Rathbone, *The Disinherited Family*, (1924) p.ix.

⁴⁹ Mrs M.3.B.

⁵⁰ Mr P.1.B.

⁵¹ Miss T.4.P.

⁵² It is not possible to estimate the total number of women with part-time occupations. The census returns do not differentiate between full and part-time work although the occupation tables are usually presumed to refer to full-time work. The census enumerators, however, simply wrote down what each householder told them and whether a wife doing mornings a week charring was enumerated as a domestic servant must have depended on many individual factors. There is some evidence apart from a mass of oral evidence, to suggest that census returns did seriously under-

estimate women's part-time work. In an article on holiday resorts, John Walton and Paul McGloin demonstrate the underrecording of landladies in the census returns. In Keswick none are recorded for 1901 whereas local directories record 69. J. Walton and P. McGloin, 'Holiday resorts and their visitors, some sources for the local historian', *The Local Historian* Vol. 13 No. 6 (1979).

⁵³ The Preston unemployment returns for insured workers out of work in the interwar period differentiate between men and women but not between married and unmarried. Women constituted on average about one third of the total unemployed. Therefore at the height of the slump in 1930 over 5000 women were unemployed. *Preston Medical Officer of Health Reports* 1924-40.

⁵⁴ The Pilgrim Trust, *Men Without Work*, (1938), p.85 and p.235.

⁵⁵ Mr M.3.L.

⁵⁶ Mrs S. 2. B.

⁵⁷ Mr H. 2. B.

⁵⁸ Mrs A. 1. P., op. cit.

⁵⁹ Mr G. 1. P., op. cit.

⁶⁰ Mrs W. 1. P.

⁶¹ Elizabeth Bott, *Family & Social Networks*, (1971).

⁶² Diana Gittins, 'Women's work and family size between the wars', *Oral History*, Vol. 5. No. 2., p. 97.

⁶³ Elizabeth Roberts, 'Working-class women in the North West', *Oral History*, Vol. 5., No. 2.

⁶⁴ Quoted by Angus McLaren, 'Women's Work and Regulation of family size', *History Workshop*, No. 4, 1977, p. 70.

⁶⁵ *ibid*, P. 78.

⁶⁶ J. W. Innes, *Class Fertility Trends in England & Wales 1876-1934*, (1938). Diana Gittins, op. cit., p. 87.

⁶⁷ *Census of England & Wales, 1911*, Vol. XIII *Fertility of Marriage, Part II*, p. cxiii and p. cxvii.

⁶⁸ *Census of 1911*, *ibid*, p. cxvii.

⁶⁹ Figures taken from Census, 1891, 1901, 1911, 1921 and 1931, Registrar General Annual Reports 1890-1940 and the annual reports of the Medical Officers of Health in Barrow and Preston.

⁷⁰ The fertility rates for the period 1911-20 in Barrow are undoubtedly too high. This period saw a huge influx of munition workers and their wives into the town, they arrived after the 1911 Census and left before that of 1921. Consequently their numbers cannot be estimated in the intercensal calculations. During the war, however, the Medical Officer of Health estimated the population to be over 90,500. The 1921 Census gave it as 74,244. It would seem safe, therefore, to suggest that there were in fact more married women than calculated on the basis of the census returns

and that therefore the fertility rates were considerably lower.

⁷¹ *Fertility of Marriage*, *ibid.*, p. cxiv.

⁷² Mr G. 1. P. op. cit.

⁷³ Mrs B. 1. L.

⁷⁴ Mrs B. 1. P. op. cit.

⁷⁵ Mrs P. 1. P. op. cit.

⁷⁶ For typical examples of these attitudes, see pp. 147-8

⁷⁷ Medical Officer of Health, *Annual Medical Report for Preston, 1902*.

⁷⁸ George Newman, *Infant Mortality a Social Problem*, (1906), p. 103-10.

⁷⁹ Registrar General's Supplement to the Annual Report 1907, cmd. 2618. The average infant mortality figures are for 1896-1901. Employment figures from Census of 1901, Table 359.

⁸⁰ Medical Officer of Health, *Annual Report for Preston, 1911*.

⁸¹ Carol Dyhouse, 'Working-class mothers and infant mortality in England, 1895-1914', *Journal of Social History*, Vol. 12., No. 2, 1978, p. 248-267.

⁸² City of Birmingham Health Department, *Report on Industrial Employment of Married Women & Infant Mortality*, (1910) quoted in C. Dyhouse *ibid.*

⁸³ Medical Officer of Health, *Annual Report for Preston, 1930*.

⁸⁴ Mrs P. 1. P. op. cit.

⁸⁵ Mr T. 3. P. op. cit.

⁸⁶ Mrs M. 3. P.

⁸⁷ Mrs H. 3. L.

⁸⁸ Mr T. 2. P.

⁸⁹ Mr T. 3. P. op. cit.

⁹⁰ Mr G. 1. P. op. cit.

⁹¹ Michael Anderson, *Family Structure in Nineteenth Century Lancashire*, (1971), p. 8.

⁹² There is little documentary, as opposed to extensive oral evidence, on this 'financial aspect' in the relationships of full-time textile working women and their extended family. However in the brief report on child minding given by the Preston Health Visitors in the Preston Medical Officer of Health's Report from 1930, there are two revealing comments.

Thirteen children were left at the home of relatives at a small charge or without charge in return for some little service e.g. assistance with cleaning.

And later there is a reference to the charges for child minding, 10s.-12s. per week per child but 5s. and 6s. and 7s. as a charge to relations. (Oral evidence gives higher rates in families). There is no indication that this principle of charging relatives for baby minding was regarded as anything but a usual practice.

⁹³ These expectations of children's participations in family work patterns

were not confined to textile families. Elizabeth Roberts, 'Living and learning socialisation outside school', *Oral History*. Vol. 3 No. 2.

⁹⁴ Mr T. 2. P. op. cit.

⁹⁵ Mr B. 9. P.

⁹⁶ Margaret Hewitt, *Wives and Mothers in Victorian Industry*, (1958), p. 75.

⁹⁷ Robert Roberts, *The Classic Slum*, (1973), p. 107.

⁹⁸ Elizabeth Roberts, 'Working-class standards of living in Barrow & Lancaster', *Economic History Review*, Sec. Ser. Vol. XXV, No. 2, 1977. This article also discusses the reliability of oral evidence on such matters as diet.

⁹⁹ Mr G. 1. P. ibid.

¹⁰⁰ Mr B. 9. P. ibid.

¹⁰¹ *Barretts Directory of Preston and the Fylde 1892*

Barretts' Directory of Preston and District 1936.

¹⁰² Edwin Smith writing in the Journal of the Society of Arts in 1864 (Vol. 13) described the diet of the Lancashire cotton operatives as being one of bread, oatmeal, bacon, treacle, tea and coffee. Quoted in Margaret Hewitt op. cit.

¹⁰³ Scott and Tilly, *Women, Work and Family*, (1978), p. 212.

¹⁰⁴ Mrs M. 1. P.

Further reading

Louise Tilly and Joan Scott, *Women, Work and Family*, Holt, Rinehart and Winston, 1978. This substantive work examines the interrelationships of married women's work, their family budget and family relationships. It includes data from both England and France and from the pre-industrial as well as later periods. This work is essential reading for the student of married women's work.

Margaret Hewitt, *Wives and Mothers in Victorian Industry*, Rockliff, 1958. Margaret Hewitt presents a comprehensive review from official documents, journals and contemporary literature of the generally critical attitudes of the middle and upper classes to the working wife in Victorian England. There is particular reference to married working women in Staffordshire and Lancashire.

Elizabeth Roberts, 'Working-class standards of living in Barrow and Lancaster 1890-1912', *Econ. Hist. Rev.* 2nd ser. vol. xxx No. 2 1977. This article sets the value and importance of women's work in the wider context of working-class standards of living and the various strategies adopted by families to enable the women to balance their budgets.

Viola Klein, *Britain's Married Women Workers* Routledge and Kegan Paul, 1965. This is essential reading for those studying married women workers in the 1950s and 1960s. Based on official documents and interviews with 2030 people in 1957, it is a thorough and authoritative survey of the work

done by women, their reasons for working and the effect of their work on their families.

Carol Dyhouse. 'Working-class mothers and infant mortality in England 1895-1914' *Journal of Social History* vol.12 No. 2 1978. This is a carefully argued and convincing case against the long held view that high infant mortality rates in this period were the result of working-class mothers' employment and/or their incompetence and ignorance.

Michael Anderson, *Family Structure in Nineteenth Century Lancashire*, Cambridge University Press, 1971. This seminal work includes an examination of married women's work although it is principally concerned with family structures and relationships. The study is concentrated mainly on Preston in the mid-nineteenth century. Much of the data is drawn from the census enumerators returns, the use of which was pioneered by Michael Anderson.

L. Tilly and J. Scott, 'Women's work and the family in nineteenth century Europe'. *Comparative Studies in Society and History* 17 1975. This is a very useful survey of patterns of both single and married women's paid employment in Europe in the nineteenth and early twentieth centuries. The reasons for women working are examined and there is evidence about the economic power wielded by women as the household manager and 'accountant'.

Pilgrim Trust. *Men Without Work*. Cambridge University Press, 1938. The Pilgrim Trust's investigation in the 1930s was into unemployment and its effects on the lives of the unemployed in Deptford, Leicester, Rhondda, Crook (Co. Durham), Liverpool and Blackburn. It includes a chapter on unemployed women (especially in Blackburn which has relevance to Preston).

Diana Gittins, 'Women's work and family size between the wars'. *Oral History* vol.5 No. 2. Although the data from Preston would tend to qualify some of Ms Gittins' arguments and conclusions, this is a stimulating article which examines the interrelationships of married women's work (or lack of it), the role of their family and their relationships with their husbands.

Angus McLaren, 'Women's work and regulation of family size', *History Workshop* No. 4 1977. This article examines the question of working-class women's use of abortion as a means of controlling family size in textile areas in the nineteenth century. Oral evidence from the later period while indicating that abortion was practised, does suggest that it was not at all a widespread practice.

0710
8230
0440
U.K.

The impact of immigration on British Society 1870-1980

COLIN HOLMES

I

As Kingsley Martin once observed, race like the theory of numbers drives mad those who study it.¹ When both are combined, the effects are likely to be even more fearsome. Nevertheless, they feature prominently in the following discussion which is concerned with the impact of immigration on British society over the past hundred years. Most of the evidence is drawn from episodes involving Jewish, Caribbean, Indian and Pakistani immigrants, since it is on these groups that information is most abundant.² Furthermore, the survey is limited to a number of specific themes. By way of introduction reference is made to the wide range of immigrants who have entered Britain since 1870 and this is followed by a discussion on the size, flow and concentration of immigrant communities. Against this background reactions towards immigration are then considered and particular attention is paid to the stress, almost ever-present in the debate, on the importance of numbers. This is followed by a discussion of government responses to the demands for immigration control and a consideration of the recent measures designed to improve race relations consequent upon the influx of a racially visible immigrant population. Finally, a step is taken outside the polemical minefield in which these issues are located, in order to assess the verifiable economic, social and cultural impact of immigration on the life of the receiving society. A final introductory emphasis. 'Immigrant' refers to newcomers, who have built a new life in Britain and sojourners and refugees whose stay has been temporary.

II

If we turn first of all to the immigrants who have entered Britain, it

becomes clear that the influx of the Irish which had been a prominent feature of the 1840s was reduced to a dribble after 1870. Even so, some movement still continued.³ So too did immigration from the European mainland, with the result that when George Sims compiled his survey on *Living London* he was able to write about French, German, Italian and Russian communities which formed part of the throbbing life in the capital.⁴ Attention was diverted away from these newcomers, however, by the stream of Jewish immigrants fleeing from Tsarist persecution, who found refuge in Britain sometimes as transients en route to America but in other cases as permanent settlers.⁵ But it was not Europe alone which provided the migrants: one also needs to take account of the small Chinese community in London and the seaports, as well as the occasional sighting of a West Indian or an African.⁶ Such was the immigrant landscape in the years prior to the First World War.

With the outbreak of war in 1914 restrictions descended upon movement. But this did not mean that all immigration ceased. A number of Belgians, for instance, who were portrayed at first as victims in a David versus Goliath struggle against Germany, sought temporary refuge here.⁷ The war also led to an increase in the size of the black population. Black workers were in a sellers' market as the armed forces took men out of the economy and although not all of them stayed and put down roots, some did, and through their presence effectively reconstituted a community which had first been in evidence in the sixteenth century but which had virtually disappeared by 1914. These newcomers were joined by other blacks who had fought in the war and were then demobilized in Britain.⁸

In the interwar years hostilities of a different kind brought in other newcomers. After the National Socialists came to power in Germany in 1933 all enemies of the state came under increasing pressure and after the *Anschluss* in 1938 similar conditions began to prevail in Austria. It was in such circumstances that individuals, many of them Jewish, began to leave Central Europe and make their home elsewhere,⁹ in the course of which some came to Britain, to what Sigmund Freud called 'this strange country'.¹⁰

Although some movement took place between 1939 and 1945 it has been in the years following the Second World War that immigration has captured most attention. Shortly after the War, at a time of acute labour shortage, the Government not only allowed 10,000 members of the Polish forces to remain in Britain but actually recruited Baltic, Polish, Ukrainian, Italian, Austrian and German labour, arguing that foreign workers could make a useful contribution to the economy.¹¹ Following this, between 1951 and

1961, immigration from Ireland reached proportions which had not been seen since 1871-90, with movement being particularly high in the 1950s, and, a little later, with Britain's membership of the Common Market, immigration from countries within the European Economic Community was facilitated. But many immigrants have come from outside Europe. After the war recruitment 'widened dramatically to beyond the oceans'¹³ to include newcomers from the West Indies and the Indian sub-continent. The first significant indication of this came in 1948 when about 400 West Indians arrived in search of work and became the pioneers of a West Indian movement which was to gather pace and reach its high point in the 1950s. These numbers were increased by immigrants departing mainly from the rural areas of India and Pakistan who, particularly since the 1960s, have injected an Asian dimension into British life.

In the late 1960s and early 1970s, in addition to arrivals from the Indian sub-continent, the number of Asians was further increased as Kenya, Uganda and Malawi, in pursuit of their Africanisation policies, extruded their Asian minorities, thousands of whom found a new home in Britain. More recently still, Asian immigration has also been stimulated by events in South East Asia, with the well publicised exit of the ethnic Chinese, and other clamouring fugitives, more than 10,000 of whom have so far arrived. At the same time as these developments were taking place it should not be overlooked that other immigrants, some temporary some permanent, were entering the country from areas such as the Old Commonwealth, from Hungary, following the abortive uprising in 1956, from South America, as fugitives from political persecution, and from the Middle East, either as temporary residents or in some cases as permanent settlers escaping from the rigours of a militant Islam.¹⁴

III

What has all this meant in terms of the ebb and flow of population? In considering this, and concentrating on the major developments, we can detect certain broad patterns.

From the beginning of the nineteenth century until the 1930s Britain witnessed a substantial net outward movement of population. All the constituent elements of what we now call the United Kingdom were in this position.¹⁵ In the course of the world crisis and depression in the 1930s emigration was a less attractive prospect and this, together with a certain amount of returnee movement and the arrival of refugees from Europe, accounted for a

Table 1 Estimated population of New Commonwealth and Pakistani ethnic origin in Great Britain

<i>Mid-year</i>	<i>NCWP (millions)</i>	<i>Percentage of GB Population</i>
1971 (census year)	1.37	2.5
1972	1.45	2.7
1973	1.54	2.8
1974	1.61	3.0
1975	1.69	3.1
1976	1.77	3.3
1977	1.84	3.4
1978	1.92	3.5

Sources

OPCS *Population Trends* 9 (1977), pp.4-7

OPCS Monitor PP1/78/4, 29 August 1978

Personal information from OPCS

Note: It is important to consult the sources to understand how these figures have been estimated. As the text of the present paper indicates, the general area is full of difficulties.

reversal of the previous trend.¹⁶

In more recent years there has been generally a net outflow of population from Britain, although the early 1960s saw a significant lift in immigration from the Caribbean, India and Pakistan, particularly in the period immediately prior to the 1962 Commonwealth Immigrants Act, when a concerted attempt was made to arrive before this came into force.¹⁷ From the mid-1960s the net outward flow of population has generally reasserted itself and primary immigration from the Caribbean, India and Pakistan, in other words excluding dependants, has been reduced substantially as a result of immigration controls.¹⁸

In terms of specific groups, the best estimate of Jewish immigration is that approximately 120,000 arrived between 1870 and 1914, particularly between 1882 and 1905. In recent years public attention has been concentrated mainly on the immigrants from the New Commonwealth, which is defined as all Commonwealth countries, except Australia, Canada and New Zealand. The latest figure we have at the time of writing for the number of New Commonwealth immigrants, along with those from Pakistan, is that of 1.1 million in mid-1978. The total population of NCWP ethnic origin at this time, including those born here and taking into account the children of mixed marriages, amounted to 1.9 million.¹⁹

Table 2

Alien immigrants estimated in the UK in the 1901 census	286 825
Alien immigrants resident in the County of London in the 1901 census	135 377
Russian and Polish aliens in the UK in the 1901 census	95 245
Russian and Polish aliens resident in the County of London in the 1901 census	53 537
Russian and Polish aliens enumerated in Stepney in the 1901 census	42 032

Source: Royal Commission on Alien Immigration, BPPIX (1903), p. 14.

Once they were in Britain immigrants tended to congregate in certain areas, which have become loosely known as ghettos. The Irish, for example, packed themselves into areas of large towns and within such centres further subdivided into even smaller communities such as Aran Islanders or Kerry men.²⁰ The Jewish immigrants who entered Britain from Russia followed a similar pattern and concentrated particularly in the East End of London. As a result, according to the 1901 census, four-fifths of the Russian-Poles (essentially Jews) in London lived in the borough of Stepney.²¹

This is not to suggest that the East End was the only major centre of Russian-Jewish settlement: a sizeable number also congregated in the Leylands district of Leeds.²² It is hardly surprising that these areas attracted a good deal of interest at the time but this should not encourage us to overlook smaller immigrant concentrations. An Italian quarter was discernible in London around Saffron Hill and Hatton Garden²³ and Chinese communities could be observed in the dockland areas of Cardiff and Liverpool.²⁴

A similar tendency towards concentration has been apparent among present-day immigrants. London has continued to be a magnet as it was in the nineteenth century and New Commonwealth and Pakistani immigrants have generally headed for the great conurbations. It is as a result of this trend that important settlements have developed in areas such as Handsworth in Birmingham and the St Paul's area of Bristol.²⁵

But if broad patterns of movement and concentration can be identified, it should be emphasized that some government statistics on immigration are not particularly sound. A recent commentator, referring to the nineteenth century, remarked that the figures were 'unreliable for the early period'²⁶ and this can hardly be denied. Prior to the 1841 Census, no official statistics exist

regarding the number of Irish-born residents in Britain, even though numbers increased steadily in the early years of the century. Indeed, the number of Irish immigrants permanently residing in Britain at any time has been difficult to determine owing to the presence of transients en route to other countries and temporary workers over in Britain for seasonal employment. Official figures do not identify these particular categories.²⁷

As for the number of Jewish immigrants who entered Britain after 1870, the starting point for anyone interested in this is the 1836 Act which required the master of every ship arriving in England from abroad to submit a list of the aliens he was carrying. By the 1850s and '60s, however, this had fallen into almost total disuse outside London. It was revived in May 1890, although somewhat imperfectly, and the 1905 Aliens Act did little to remedy this state of affairs, since it did not distinguish between those who were coming to settle in Britain and those who passed through on the way to America, the '*goldene medina*'. When we add to this the fact that Jews were not specified as Jews in any official returns, it soon becomes clear that the annual increment of Jewish immigration is difficult to determine with total accuracy.²⁸

Problems also exist regarding the recent arrival of immigrants from the New Commonwealth and Pakistan. Down to 1964 the data on entry was inadequate. Since then the situation has been partly remedied by the discontinuance of official migration figures based only on movement by long sea routes and their replacement by statistics derived from a sample of passengers arriving by principal sea and air routes, known as International Passenger Surveys.²⁹ This new procedure has resulted in a more accurate assessment of movement in and out of Britain but it also means that statistics from 1964 onwards cannot be married to those from 1963 and earlier.³⁰ It was on account of such confusion that the 1977-78 Report of the Select Committee on Race Relations and Immigration was so crushing in its comments on the collection of immigration statistics.³¹

IV

Against this background of constant ebb and flow,³² a persistent stress has been apparent in all anti-immigration campaigns since 1870 on the number of immigrants who were allegedly entering the country or who might enter it. For example, at the turn of the century complaints concerning the immigration of cheap Asiatic labour were widely emphasized in Socialist circles and it was suggested that hordes of Chinese might be moved by cheap sea

transport into the developed economies of the West.³³ Comment on the number of arrivals was also heard at the time of Jewish immigration and the recent influx of Caribbean, Indian and Pakistani migrants has resulted in a similar emphasis. Indeed, striking similarities in imagery have been present in the debates surrounding these two sets of newcomers.

At the time of the former, in 1891, the *Evening News* could complain about 'The Foreign Flood' or 'The Jewish Invasion'³⁴ and in 1902 the Bishop of Stepney alleged that 'The East End of London was being swamped by aliens who were coming in like an army of locusts eating up the native population or turning them out'. 'Christian churches', he remarked, were left like 'islands in the midst of an alien sea'.³⁵ Similar imagery was apparent elsewhere. William Walker, an undertaker, told the 1903 Royal Commission on Alien Immigration: 'There is no end to them in Whitechapel and Mile End. It is Jerusalem'; and William Rose, a carpenter, said in evidence to the same enquiry: 'It is like the waves of the sea — they simply keep spreading, but they do not retreat like the waves of the sea do'.³⁶ Moreover, if it were suggested that only parts of the country were affected, the reply came that in such areas it was the number of immigrants that gave the issue its significance. 'Ten grains of arsenic in a thousand loaves would be unnoticeable and perfectly harmless', it was remarked, 'but the same amount put into one loaf would kill the whole family that partook of it'.³⁷

A comparison of such imagery with that manifested in the more recent debate is quite instructive. In 1954, it was asserted that immigrants were 'pouring in'³⁸ and in 1961 it was claimed that if the rate of increase continued, the New Commonwealth population would soon be in the majority.³⁹ Furthermore, Sir Cyril Osborne, who made that observation, solemnly contended that 400m. Indians might eventually settle in Britain.⁴⁰ And the overpowering, dark spectre, present in these early observations, has persisted. In 1971 *Spearhead* the organ of the National Front, blazoned the headline 'New Areas for Immigrant Flood'⁴¹ and Enoch Powell, who has consistently claimed that 'the issue . . . of numbers and . . . the increase in numbers' rests at 'the very heart' of the immigration question,⁴² has referred recently to 'a limitless and continuous inflow' of immigrants. In his view, Britain has been 'bailing out an ocean'.⁴³ And *The Times* has noticed 'the widespread popular belief' that there was 'no end to the flood of immigrants from the New Commonwealth and Pakistan'.⁴⁴ Apart from using similar imagery, recent critics, like their nineteenth-century counterparts, have also constantly and pointedly referred

to the inadequacy of official statistics on immigration and the acknowledged deficiencies in some of these have given them considerable room for manoeuvre.⁴⁵

In addition, the question of numbers has extended itself recently into the area of immigrant birth rates. Early in 1979 it was alleged that these were at a terrifying level⁴⁶ and Enoch Powell raised the prospect that in the future London and other English cities would be 'one fifth, one quarter and one third New Commonwealth'.⁴⁷ This kind of fear, which has led some critics into the dark areas of immigrant sexual behaviour and genetic pollution, has never been far from the centre of the debate over the past few years.⁴⁸

If we consider one strand among such claims, that official statistics on immigration and immigrant life have been unreliable, it has to be said that opponents of immigration have directed attention towards serious problems. We have already indicated as much⁴⁹ and there is other evidence, relating to recent immigration, which can be added to this. In 1968 *Colour and Citizenship* commented that the intelligent analysis of race relations in Britain was everywhere subject to difficulty and mis-construction because of the dearth of reliable information and a recent attempt by the Government to achieve an improvement in such matters by including ethnic questions in the census returns has been withdrawn after encountering strong opposition.⁵⁰ Such uncertainty has led to the exploitation and manipulation of data.⁵¹

The second major emphasis, that the number of immigrants entering the country has been excessive, has clearly assumed considerable importance in the debates over immigration during the last hundred years. Indeed, together with the third strand in the numbers argument, the claim that the birth rate among the New Commonwealth and Pakistani arrivals has been uncomfortably high, it has been used as a major justification of the restrictive legislation which has been passed since the 1960s.⁵² It has to be recognized, however, that we need to understand more than these combined fears regarding numbers if we are to make sense of the public opposition which has been in evidence at any point during the last hundred years.

We need to start at the beginning and recognize that prior images have existed on all the major immigrant groups that have entered Britain since 1870. These stereotypes, sometimes refracted through the layered experiences, varying interests and resulting perceptions of many earlier generations and sometimes of more recent vintage, since they are in a process of constant creation, were seldom simple. They were often mixed or ambivalent, with impressions of superiority and inferiority, antipathy and sym-

pathy, residing as co-habitants within one overall stereotype.⁵³

We need therefore to take account of images which, once formed, possessed a remarkable durability and which could persist long after the social circumstances which had originally created them had died away. But how were such images related to the hostility which immigrants encountered? There are those who have stressed that if we wish to understand hostility towards minority groups we need to concentrate upon individual personalities;⁵⁴ that there are individuals who need to hate and who project a hatred derived from their own inadequacies upon minorities, including immigrant groups. It has been further suggested that among such individuals the hostile stereotypes present in society provide convenient images through which they can describe and explain their perceptions of the world.⁵⁵ We can discover people in this category over the past hundred years and even if their number accessible to historical investigation and identification has been small, they have nevertheless assumed an importance beyond their size.⁵⁶

But it might be suggested that the maximum understanding of hostility towards immigrants would lead us away from the inner world of the personality towards a consideration of specific social contexts in which those with deep seated personality hatreds could make their greatest impact.⁵⁷ The basic social cause which has generated opposition has been a perceived threat to individual or group interests. This hostility, which has usually been specific rather than generalized, has arisen from a social context in which sections of the host and immigrant populations have had what they regard as conflicting interests to pursue and defend. Such conflict has been particularly acute at times of economic and social uncertainty or disequilibrium. Consequently, the years between 1880 and 1905, when the condition of England question was being vigorously debated, the years of adjustment immediately following the First World War, the uncertain atmosphere of the 1960s when it was realized that fundamental adjustments were needed to the British economy, and the insecure ambience of the mid- and late 1970s as this realization has hardened and intensified, have provided the broader stimulating canvas for this hostility. It has been in these circumstances that evolved stereotypes have been triggered into social significance. At such times they have helped to channel hostility towards certain groups and to justify attitudes and behaviour.⁵⁸

If we now try to identify particular areas of conflict we might note first of all that since 1870 immigrants have been frequently accused of undercutting native labour. Whereas a supply of cheap

workers could be welcomed by some employers, it could hardly be expected that sections of the existing labour force which felt threatened by such developments would respond in similar fashion. For example, in the 1880s clerks in the City of London, who were undergoing a status crisis at this time, protested against German competitors, viewed with a conditioned mixture of fear and admiration, who were anxious to gain experience with City firms.⁵⁹ Furthermore, at the time of the great Jewish immigration from Russia, while many Liberals vaunted the Smilesean qualities of the immigrants, asserting the traditional image of the Jew as 'the economic man', there was opposition from sections of the labour force which believed it faced competition from the immigrants, either directly or indirectly. In 1892, 1894 and 1895 such disconcerted cries received support at the Trade Union Congress, when Jewish immigrants were categorized as important agents in the sweating system who helped to depress the standard of living of British workers.⁶⁰ Later still, seamen claimed that Chinese hands in Liverpool and Cardiff undercut their British contemporaries and were correspondingly favoured by shipping lines. There was a tradition among British seamen that the Chinese were worthless as seamen; their only virtue was their cheapness and this strand of opposition, prevalent in the Seamen's Union, played a major part in the hostility expressed towards the Chinese in the early years of the present century.⁶¹ A similar concern over employment was created in professional circles consequent upon the influx of Central European refugees in the 1930s; in a general sense there could be sympathy for the victims of Nazism, but this could be diminished if the refugees posed a threat to one's own career.⁶² Although the later arrivals from the West Indies and India-Pakistan have not been perceived as an immediate threat to wages and employment, they have nevertheless been regarded in some quarters as a pool of cheap, mobile, undemanding labour — a view based on immediate surface impressions and received historical stereotypes — but for whose presence wages and conditions of work in some sectors of the economy would have been improved.⁶³ Finally, in discussing competitive pressures associated with immigrants, it is important to note that in the case of the two major immigrations from Russian Poland and the New Commonwealth and Pakistan, sharp local tensions have been generated through fears which related to the sale, allocation, and use of housing. Indeed, at the turn of the century, some of the keenest expressions of hostility in the East End arose out of this particular context.⁶⁴

But we need to go beyond such considerations in locating the grounds of opposition towards immigrants. In the late nineteenth

century some individuals directed hostility towards Jewish newcomers because, it was alleged, the Jews brought with them an historically conditioned approach to economic behaviour which would hold back the establishment of what these opposing voices regarded as a fair and just society.⁶⁵ In the East End itself such sophisticated emphases were not frequently heard but an earthy, persistent concern was expressed there about the habits and behaviour which the immigrants imported from the Russian Pale.⁶⁶ Around the same time although the so-called German Gypsies who travelled through Edwardian Britain did not pose an economic threat to any section of British society and as a mainly self-supporting group did not constitute much of a drain on public funds, their presence highlighted once again their traditional threat to the settled, sedentary life which had captured most of the population. Consequently, although the Gypsy Lore Society could delight in their presence and culture, others, particularly those among whom the Gypsies made their camps, identified with the voice of Sir Howard Vincent who asked: 'How are we to get rid of these wretched people?'⁶⁷ Other immigrant groups have encountered similar hostility. A few years later, while the police could view with tolerance the behaviour of the small Chinese community since it did not lead to breaches of the peace, others, stirred by the nature of their Christian consciences, became alarmed at the acknowledged gambling and drug-taking of the Oriental newcomers and proceeded to make wilder allegations about their sexual predilections.⁶⁸ Finally, in more recent times, the persistence of old cultural patterns among Asian immigrants has been attacked by those who have rejected the concept of integration and in the minds of others, almost certainly imbued with traditions of superiority derived from Britain's past, recent immigrants have become symbols of undesirable social and cultural change. 'Edgbaston Road used to be a lovely road', one Midlands voice proclaimed, 'you used to have nannies up that way, you know. Really good class people used to live there and it was a pleasure to walk in that area. Now they've taken over it's a slum. It's horrible'.⁶⁹ In short, immigration became associated with shocks to established, favoured, safe or known patterns of behaviour and this also raised hostility.

If at this point we draw together the essential drift of the preceding argument it might be summarized as follows. The threat of numbers has been given considerable prominence by opponents of immigration and hostility based upon this fear has been open to exploitation since not all the statistics on entry during the past hundred years have a clear, unchallenged quality to them. The

volume of immigration has not always been recorded with total accuracy. Furthermore, fears have been powerfully fuelled by the concentration of immigrants in certain areas such as the East End of London, where immigration has at times contributed to the pressures on resources. Generalizations have then been drawn from such specific cases. But at all times we need to probe behind the emphasis on the size of immigration in order to locate the economic, social and cultural fears, based on an interaction of past and present influences, which have provided the bases of opposition to immigration, which have produced a context in which those with deep-seated personality hatreds could flourish, and which have underpinned the stress on numbers and given it its significance.

Before leaving this particular strand of the discussion a number of additional, parting emphases might be made. First of all, although it has to be recognized that there is a point beyond which immigration can create problems, this is not a constant and it cannot be predicted with accuracy, whether one is concerned with absolute numbers or the concentration in particular localities.⁷⁰ We would also do well to remind ourselves of the historical evidence that hostility and persecution have occurred against minorities of all types and sizes, 'native or new, growing or stationary'.⁷¹ Furthermore, there is no conclusive evidence which would suggest that there is any one-to-one relationship between the proportions of an immigrant population or the rate of its increase and the development of public attitudes.⁷²

Following on from this it can be said that no social group in Britain has shrunk from expressing hostility towards immigrants if it has perceived a threat to its livelihood, status or way of life. On some occasions such hostility has been translated into violence and at times immigrants have reciprocated in similar fashion, as the recent events in the St Paul's area of Bristol and in Brixton have illustrated.⁷³ Faced with hostility derived from perceptions of self interest⁷⁴ those immigrants that have fared best have been those whose interests coincided with the interests of strong sympathisers, those who could enlist support from influential quarters or those who could themselves exercise an influence over policy. Immigrants without similar support could be dangerously exposed.⁷⁵

The foregoing analysis has attempted to explain hostility towards immigration but we have already noticed that quite differing reactions have been present in Britain, in the sense that at particular times some immigrants have been supported by certain sections of British society. Although such attitudes and behaviour

are in opposition to those on which we have been concentrating, they can be understood through a similar kind of analytical process. In other words, in pursuit of their origins we should need once more to take into account the complex interaction of prior images and immediate perceptions, derived from the specific interests of individuals and groups in particular social contexts. An explanation of immigrants being accepted or tolerated on account of a transcendent moral tradition at the heart of British society leads us nowhere.⁷⁶

V

How has Government responded to the pressures urging it to control immigration? We might now consider this with special reference to Jewish and New Commonwealth and Pakistani immigrants.

In 1870 there was no effective legislation which controlled the arrival of newcomers. The measures put through in emergency conditions during the French Revolution had lapsed and it was not until 1905 that an Aliens Act was passed by a Conservative government which hoped thereby to drive a wedge between Liberalism and Labour. The categories for exclusion were limited, however, and did nothing to prevent able bodied and persecuted refugees coming to Britain. Soon afterwards, in an atmosphere of war-like xenophobia, the Aliens Restriction Act was introduced in 1914 and was followed in 1919 by the Aliens Restriction (Amendment) Act, under which the admission and expulsion of aliens were controlled by powers exercised by Order in Council. This legislation, amended by Orders in Council, remained in force until 1971.⁷⁷

Arrivals from the Empire, however, were not touched by any of these developments. This was consistent with the view that all its citizens were equal subjects of the Crown. And, as Empire faded into Commonwealth, this was given legislative reality in the 1948 British Nationality Act.⁷⁸ Soon, however, controls were introduced. The decisive years were the 1960s when a series of measures, the 1962 Commonwealth Immigrants Act, the 1965 White Paper *Immigration from the Commonwealth* and the 1968 Commonwealth Immigrants Act, regulated primary entry through a controlled voucher system. On the surface this legislation gave the impression of relating immigration to manpower needs but through its differential entry requirements the basic policy aim was to restrict the growth of a non-European population through the re-assertion of control in a metropolitan context over former dependent subjects. And it was in continuation of such

thinking that in the 1971 Immigration Act — which has been effective since January 1973 — New Commonwealth immigrants had further restrictions placed upon their entry when Britain's membership of the EEC aided the entry of aliens from Common Market countries.⁷⁹

This recent legislation was passed by successive governments which were anxious not to lose support through appearing defensive over what developed as a burning issue in the 1960s. Set on such a course, it has already been noticed in passing that restrictionist policy was often defended by reference to the number of immigrants entering Britain. Or, as one politician expressed it: 'Without integration limitation is inexcusable, without limitation integration is impossible'.⁸⁰ This justification might satisfy some, but it needs to be pointed out that a policy based on this premise is likely to produce its own problems. This is indicated by the fact that the legislation of the 1960s led to continual pressure for even greater control. In other words, once it is conceded, the drive for restriction is not easily restrained.⁸¹ But the danger does not end there. It is only too easy for restrictive legislation to be regarded as an answer by itself to the problems associated with immigration. Yet, as we have been reminded recently, 'Control cannot build houses for the immigrants or the hosts; it cannot curb the unscrupulous landlord, break up the ghettos or prohibit the formation of a sub-proletariat'.⁸² And, to this, we must add that it cannot eradicate hostile, historically derived stereotypes; indeed, it is likely to reinforce such images and create new ones. By itself it cannot solve the problems raised or highlighted by immigration.⁸³ It stands a better prospect of making them worse by hiding behind a smokescreen of control and avoiding alternative and possibly awkward policies.⁸⁴

At the same time as legislation to control immigration was being passed in the 1960s and 1970s, events were set in train for the first time in British history to promote inter-racial relations and prohibit acts of racial discrimination.⁸⁵

In 1962 a non-statutory body, the Commonwealth Immigrants Advisory Council (CIAC) was established to advise the Home Secretary, when requested, on matters affecting the welfare of Commonwealth immigrants in Britain. Then, in 1964, on the recommendation of the CIAC, the first National Committee for Commonwealth Immigrants (NCCI) was founded and given the task of co-ordinating and invigorating the work of statutory and voluntary bodies engaged in immigrant welfare. A year later, a larger NCCI took over the role of the CIAC and the old NCCI. But these bodies never enlisted the support of major immigrant organi-

zations and had no way of involving them in their work. When the NCCI broke up in confusion following the Home Secretary's decision to restrict the immigration of British citizens from East Africa, it was replaced in the 1968 Race Relations Act by the Community Relations Commission (CRC) which was entrusted with the task of securing harmonious community relations. But this new organization was no better equipped to deal with political questions or problems of discrimination⁸⁶ in the sense that it had very restricted powers which limited its effectiveness. Indeed, all the bodies so far mentioned suffered from this as well as from the fact that they were formed under the shadow of legislation to restrict immigration. Against this background, they could be viewed as paternalistic buffer institutions which mopped up immigrants with ability, tamed them, and changed little in the process.⁸⁷

In parallel with such developments official attempts were made to combat discrimination. It had become evident by the 1960s that New Commonwealth immigrants were subjected to considerable discrimination when they applied for employment, in the conditions under which they sometimes worked, in their efforts to obtain accommodation and, more generally, in the treatment they received when they tried to obtain certain essential services. Faced with this, the 1965 Race Relations Act was passed to prevent discrimination in public places. The Act also called for the use of conciliation measures to deal with offences relating to race relations and set up a Race Relations Board to supervise conciliation procedures.⁸⁸ But all this was tokenism. The Act did not enable the Board to intervene in key areas such as employment and housing. Furthermore, the Board had no legal teeth. It could do no more than conciliate contending parties. As evidence persisted that substantial discrimination was taking place the 1968 Race Relations Act extended the scope of legislation to cover areas such as employment, housing, credit and banking and insurance facilities. The same measure also increased the size and the powers of the Race Relations Board.⁸⁹

Then, in 1976, yet another Race Relations Act was passed which abolished the Community Relations Commission and the Race Relations Board and established in their place the Commission for Racial Equality (CRE) which was entrusted both with the promotion of interracial relations and the prohibition of discrimination. All the signs are, however, that this merger has created its own problems. Those interested in the Commission's judicial role have doubts about its being performed by an organization concerned primarily with good community relations and social work. And, like its earlier counterparts, the Commission lacks any representa-

tive base and has only slender links with major immigrant organizations.⁹⁰ As a result it has achieved very little and, at the time of writing, it has just undergone a membership crisis. In view of its origins and history it is difficult to summon up a belief in its future.

VI

So far we have been concerned with opinions from interested parties engaged in the immigration debate during the past hundred years and government responses which have emerged against this background. Can we now cut through the plethora of claims and counter claims and ascertain the main economic, social and cultural consequences of immigration on the life of the receiving society?

If we take the first of these themes, there are four areas on which we might focus attention: the impact of immigration on employment and wages, its effects on economic growth or production, and, in the case of recent West Indian, Indian and Pakistani immigration, its consequences for the balance of payments and inflation, two of the chronic economic problems that Britain has faced over the past few years. But while there is no difficulty in isolating the major areas which call for discussion, beyond that point difficulties begin to arise. We cannot say very much about most groups because our information is deficient and we are restricted essentially to a consideration of Jewish, West Indian and Indo-Pakistani immigration. But even here there are problems: on certain themes data is far from plentiful and, in addition, economists have rarely spoken with one voice. Almost every opinion finds its opposite and this needs to be kept constantly in mind in the following discussion.⁹¹

The Royal Commission on Alien Immigration noted in 1903 that there was 'great conflict of testimony' regarding the impact of Jewish newcomers on employment and wages. Their immigration coincided with a new system of sub-division of labour in boot-making, ready made clothing and cabinet making, which resulted in the production of a different and cheaper article, and such developments made it difficult to isolate the impact of immigration upon workers in those trades. But, as regards employment, as far as the Commission could ascertain, there was no evidence to suggest that skilled labour was displaced or adversely affected. However, the newcomers did help to produce gluts in the unskilled labour market, particularly in the East End, and it was also remarked that very severe competition had resulted among the lower grades of alien immigrant labour. Furthermore, the Com-

mission found it impossible to say how much, if any, of the work done by alien labour would have been performed by native female or other labour if there had been no alien immigration.⁹²

As for the impact of Jewish immigration on wages, an assessment of the situation in the clothing trades has suggested that Jewish immigrant workers were sweated in their working conditions and hours of work but not in their hourly earnings. In other words in this sector of the economy they did not undercut wages.⁹³ And an even more recent survey has claimed that any general impact on wages was slight.⁹⁴ Any lowering of wages, of course, would imply that some displacement of labour occurred but, against this, it has to be noted that over the medium and longer term Jewish immigrant enterprise won new markets and stimulated local employment and wage rates. However, the extent of these developments cannot be determined with accuracy.⁹⁵

In the case of West Indian and Asian immigration, the major movement into Britain took place in the 1950s and early 1960s. At this time certain types of labour were in short supply and immigration tended to correlate with unfilled vacancies.⁹⁶ And, over the last few years, the impact on employment has been limited because of other developments. It has been apparent that trade unions have been prepared to discriminate against immigrants.⁹⁷ Furthermore, some control over immigrant economic activity has also been attempted by immigrant organizations which have acted to prevent undercutting.⁹⁸ If, in addition to this, one also takes into account the active, unremitting discrimination by sections of the receiving society, the result has been that in a variety of ways employment competition from Caribbean, Indian and Pakistani migrants has been tightly controlled. Furthermore, these newcomers have been made to bear the brunt of recessions in the economy. This is clearly shown by the fact that they have suffered disproportionately from deflationary unemployment. Faced with these conditions many of them have concentrated in those occupations where it has been difficult to recruit workers or have been confined to their own form of separate economy, as in the clothing industry in the East End.⁹⁹

As for the impact of West Indian and Asian immigration on wages, there is conflicting testimony. In the 1960s there were economists who suggested that such labour reduced cost pressures. Although the immigrants did not generally compete directly for employment and 'split' the labour market, it was argued that their presence prevented wages in certain sectors from rising as they might otherwise have done.¹⁰⁰ In conjunction with this it was further argued that it was this cheap labour that kept the cost of the

social services in check.¹⁰¹ It was further contended, on the basis of this, that a general influence might be exerted over wage levels which would reduce cost-push inflationary forces, assist in the process of price restraint and lead ultimately to an increase in real wages.¹⁰² In contrast to this, however, more recent opinion has suggested that the immigration into Britain at this time from the New Commonwealth did not exercise a significant effect on the general or relative level of wages. But it should be emphasized that this is an issue which is far from decided. Little empirical enquiry has been conducted into the question and the data is sparse.¹⁰³

If we now direct our attention to the impact of immigration on the production of wealth, at the time of Jewish immigration pro-immigrant circles emphasized the creative economic role of the immigrants and the 1903 Royal Commission was sympathetic to this. It was suggested that the three main industries in which immigrants were heavily involved had expanded the demand for their goods in Britain, had increased their manufacture and had raised the demand for raw materials in these industries, the cumulative effect of which had been to give employment indirectly to the indigenous labour force.¹⁰⁴ Such conclusions, however, were impressions and could hardly be dignified by any grander term. Furthermore, we are only a little better informed about the longer term economic activity of the immigrants and their children.¹⁰⁵

When we turn to immigration from the Caribbean, India and Pakistan, a consideration of its impact has to be set within the context of the discussion which has taken place since the Second World War on the dynamics of economic growth. There are those who have argued that immigration has unclear or even negative consequences on growth rates.¹⁰⁶ Set against this, however, are the views of those to whom the supply of labour to the manufacturing sector has been of crucial significance in the recent growth of West European economies and who have claimed that any country which has not recruited large supplies of immigrant labour or been blessed with a 'reserve army' in agriculture has been seriously disadvantaged.¹⁰⁷ In line with this it has been suggested that the long hours worked particularly by Asian immigrants, their greater mobility and their preparedness to put up with inferior working conditions, have provided employers with an economic flexibility they might not otherwise have enjoyed.¹⁰⁸ If we accept this line of argument, these benefits have not been confined to indigenous employers: immigrant capitalists in the clothing trades and the restaurant business have also gained. In contrast to this, however, it has been suggested that even in the years when there has been a net addition to population through immigration it has not been of a

size to make a significant effect upon the economy.¹⁰⁹ And there are some commentators who have queried whether, in view of other pressing problems, a supply of cheap labour could have greatly accelerated the rate of economic growth.¹¹⁰ As with the question of employment and wages, there is also a great deal we do not know. How important, for example, have immigrant labour and capital been in sustaining an economic life in the decaying inner-city areas? And, more specifically, what has been the economic impact of the Kenyan Asians, widely heralded as the 'Jews of Africa', whose entrepreneurial skills it was proclaimed on entry would add a vital economic ingredient to British life?

These discussions which have taken place on the relationship between recent immigration and economic growth have frequently led to a consideration of its impact on the course of inflation and the balance of payments. In considering the first of these, some commentators have argued that immigration is inflationary in the short term¹¹¹ whereas others have contended that its inflationary effects are noticeable only on a longer perspective.¹¹² In contrast to both, there are some who have suggested that immigration tends to be disinflationary.¹¹³ In short, there has been little theoretical agreement among the specialists, and very little empirical research has been undertaken. As for the other issue, the balance of payments, whereas some commentators have expressed concern at the level of remittances by immigrants to relatives abroad others have claimed that they have not been of sufficient size to affect the current balances.¹¹⁴ In addition, whereas there have been those who have emphasized the propensity of immigrants to import, others have pointed out that this source accounted for only a small percentage of Britain's total import bill between 1961 and 1966. Expert opinion, it is clear, has once again been divided. It can only be concluded that we still remain very much in the dark on such matters.¹¹⁵

At this juncture we might turn to consider the social impact of immigration, bearing in mind that its economic and social aspects cannot be easily disentangled. For instance, the type of houses and the particular areas in which immigrants have lived cannot be separated absolutely from the kind of work they have done and the money they have earned. In fact, there has been a tendency for newcomers to concentrate initially in certain well-defined areas, partly to establish close links with fellow immigrants in a new and strange environment but also because of the discrimination which many immigrants have encountered in relation to both jobs and housing.

In the case of the Jewish immigrants from the Russian Pale, we have noticed that they settled initially in Stepney.¹¹⁶ Immigrants

crowded into certain properties and some entrepreneurs within their community, as well as other landlords, exploited this situation to their own advantage. However, there is no substantial evidence to clinch the argument that Jewish immigrants *created* the social problems of the East End, such as the displacement of a settled community, overcrowding, preferential letting arrangements and key money rackets, which remained prominent issues from 1890 until 1904-5. Like the Irish who preceded them, their presence complicated a situation which had more intricate social origins.¹¹⁷ As for New Commonwealth and Pakistani immigrants, who have been particularly affected by discrimination in employment and housing markets, it has been apparent that many of them have congregated initially as a replacement population in the decaying areas of major cities and formed part of the lowest rung of the so-called 'housing classes'. In these areas they have concentrated in particular properties and like earlier arrivals have been accused of creating housing problems and causing the deterioration of the district, whereas in fact it would be more accurate once again to say that immigrants have brought into sharper focus more deep-seated problems already present in the major areas of settlement which they have then had to endure.¹¹⁸

Over the course of time many Jewish immigrants dispersed from the East End towards more 'gilded ghettos' in North London. Consequently, their major impact on the East End, and the same is true for other major areas of settlement, was essentially short term. Similarly, many recent immigrants, from Poland and Cyprus, who concentrated at first in certain areas have gradually become dispersed and the same is true for many Chinese. This is less evident among NCWP immigrants. There is a powerful body of evidence which suggests, significantly, that concentration and segregation among the Asian minority might be on the increase. Social discrimination has a key role in this.¹¹⁹

In this consideration of the social impact of immigration we need to do more than notice its effects on housing and related issues. Through their presence all the major arrivals of the past hundred years have raised important questions involving the role of the state, such as: to what extent should it provide the basic elements of social support for its citizens? What role should it adopt in remedying the disadvantages which immigrants have faced in, say, education? Does it have a role to play in trying to ensure that groups from a variety of backgrounds live together in tolerable harmony? This is another way of saying that immigration has generated a debate on the scope and ethos of social policy, that it has tested the problem solving capacities of the state and that in some cases, by encouraging state intervention, it has exposed

social policy as a focus for host-immigrant resentment.¹²⁰ We need to be aware of this wider picture.

The concentration of immigrants in particular areas has implications for our final theme, in the sense that it is in the major areas of immigrant settlement that some of the most distinct signs of the cultural impact of immigration have been displayed. This was clearly apparent in the emergence of a Jewish East End in the late nineteenth century and in the parallel transformation of the Leylands area of Leeds.¹²¹ The early concentration of Negroes and Chinese also led to cultural changes in certain seaport towns¹²² and today parts of Southall have assumed a strong Asian ambience.¹²³ In all such areas patterns from the immigrants' past have been recreated; shops, foodstores, restaurants, clubs, credit organizations, *stiebels* and mosques catering for various immigrant needs have all been established. In some instances the process has been graphically illustrated, as in the East End, where a Huguenot church which later became a synagogue has been converted recently into a mosque for the Bengali community.¹²⁴ It is of course in areas such as Handsworth, the St Paul's district of Bristol, and parts of Southall and the East End where these changes have primarily taken place that the social problems associated with immigration have been most often in the news.¹²⁵

However, we need to do more than identify elements from the immigrants' past life which have been introduced into Britain. With some groups such as the Maltese, there has been an erosion of national consciousness¹²⁶ and this has also been apparent in sections of the Polish community.¹²⁷ Elsewhere, however, the story is different. The Chinese, for example, have shown no inclination to shed what they regard as their own superior culture.¹²⁸ And we have been told that second generation Punjabi Sikhs have almost universally rejected the idea of 'becoming English'; they have modified and reformed their parents' values rather than abandoned them completely. This process, symbolized by the re-adoption of the turban, has been described as their own 'overt expression of a separate ethnicity'.¹²⁹ In similar vein many young Jamaicans have not carried on old cultural patterns; nor have they become English. Rather, they have adapted to their situation by a new process of creolization.¹³⁰ This is another way of saying that in some instances immigration into Britain has resulted not only in the retention of old cultural patterns in a new environment but has also resulted in the emergence of new ones. Such consciousness has owed a great deal to the rejection, hostility and discrimination which immigrants have perceived and encountered in their new environment. In other words it has emerged as a quest for survival

in a strange land and in some cases these expressions of cultural difference have contained or developed a political dimension, which has led to defensive confrontations with white society, when struggles in Britain against disadvantages in unemployment, housing and education have become linked with the battles of blacks elsewhere and have led to the corresponding worship of the same political saints.¹³¹

But the cultural impact has not ended there. Some immigrants, from a variety of backgrounds, have expanded and developed levels of perception which have had a relevance beyond the interests of their own racial or ethnic group. Through their life experiences they have succeeded in providing fresh and vibrant perspectives on a much wider area of British society. Furthermore, some of those who have been regarded as outsiders have seemingly derived a creative impulse from the tension of their situation which has resulted in their making a contribution to more than merely national understanding.¹³² This should not cause us to forget, however, that for others the life of an immigrant, with its special strains and problems, has proved a burden which has enabled them to do little more than survive, supported by bitter-sweet memories of an increasingly remote earlier known land.

If, at this point, we pause for a moment and take stock, it ought to be clear by now that the economic, social and cultural impact of immigration on Britain has assumed considerable complexity and directly attributable influences are difficult to isolate. In such circumstances it has often happened that simple connections have been made and easy explanations have been sought. This has been the picture in the past; there is little reason to anticipate a different future.

VII

On that pessimistic note we end this survey of immigration into Britain. But before doing so, we might remind ourselves that it is not only over the last hundred years that an immigrant population has been added to British society. 'Wherever homo sapiens made his first and on the whole regrettable appearance', it has been written, 'it was not in Britain; all our ancestors came from somewhere else'.¹³³ We have concentrated here upon only a fragment; a frame in a revolving reel. In this respect, if we switch metaphors and borrow from the imagery of the debate we have just been considering, those who have engaged our attention should be regarded as only some of the main tributaries derived from the stream of immigrants entering Britain over the past hundred

years, in the course of which they have all written new chapters in their own lives as well as in ours. Indeed, it is a history which is still being written.

Notes

¹ In *Harold Laski* (1953), p. 9.

² Pakistan left the Commonwealth in 1972. Pakistanis ceased to be regarded as New Commonwealth immigrants in the summer of 1973.

³ J. A. Jackson, *The Irish in Britain* (1963), p. XIV. For a recent important study of the Irish in London, mainly in the 1850s and 1860s, see L. H. Lees, *Exiles of Erin, Irish Migrants in Victorian London* (Manchester, 1979).

⁴ G. Sims, *Living London* (3 vols. 1901-3), in scattered chapters.

⁵ L. P. Gartner, *The Jewish Immigrant in England 1870-1914* (First published, 1960, second edition 1973), remains the best study.

⁶ Ng Kwee Choo, *The Chinese in London* (1968), chapter 1; J. Walvin, *Black and White: The Negro in English Society, 1555-1945* (1973), pp. 198-9, 202-5; J. P. May, 'The Chinese in Britain 1860-1914', in C. Holmes (ed.), *Immigrants and Minorities in British Society* (1978), chapter 5.

⁷ There is no existing study of this episode.

⁸ Walvin, op. cit., p. 205.

⁹ A. J. Sherman, *Island Refuge. Britain and Refugees from the Third Reich 1933-39* (1973).

¹⁰ E. L. Freud (ed.), *The Letters of Sigmund Freud and Arnold Zweig* (1970), p. 164.

¹¹ J. A. Tannahill, *European Volunteer Workers in Britain* (Manchester, 1958).

¹² G. P. Freeman, *Immigrant Labor and Racial Conflict in Industrial Societies. The French and British Experience 1945-1975* (Princeton, 1979), p. 65.

¹³ V. G. Kiernan, 'Britons old and new', in Holmes, op. cit., p. 54.

¹⁴ J. Rex and S. Tomlinson, *Colonial Immigrants in a British City* (1979) has a useful chronological table which sets out many of the developments referred to here.

¹⁵ R. K. Kelsall, *Population* (4 edn., 1979), p. 29.

¹⁶ Ibid.

¹⁷ Freeman, op. cit., p. 24.

¹⁸ See *New Society*, 22 November 1979, for recent discussion of this.

¹⁹ Gartner, op. cit., p. 29; OPCS Monitor pp. 1 79/9, 22 November 1979 and other OPCS information.

²⁰ Jackson, op. cit., p. 18.

²¹ *Royal Commission on Alien Immigration*, BPP IX (1903), p. 14 (henceforth RC 1903).

- ²² J. Buckman, 'The economic and social history of alien immigration to Leeds', PhD, Strathclyde, 1968, is the best study.
- ²³ R. Palmer, 'The Italians: patterns of migration to London', in J. L. Watson (ed.), *Between Two Cultures* (Oxford, 1977), p. 245. See also the classic work, R. F. Foerster, *The Italian Emigration of Our Times* (New York, 1968. First published 1919), pp. 203-5.
- ²⁴ Choo, op. cit., chapter 1.
- ²⁵ Rex and Tomlinson, op. cit., is concerned with Handsworth. A. H. Richmond, *Migration and Race Relations in an English City. A Study in Bristol* (1973), discusses the St Paul's area, as does K. Pryce, *Endless Pressure* (Harmondsworth, 1979).
- ²⁶ Kelsall, op. cit., p. 29.
- ²⁷ Jackson, op. cit., p. 11.
- ²⁸ L. P. Gartner, 'Notes on the statistics of Jewish immigration to England 1870-1914', *Jewish Social Studies*, vol. XXII (1960), pp. 97-102. See also J. A. Garrard, *The English and Immigration 1880-1910* (1971), pp. 213-6.
- ²⁹ In order to be classified as an immigrant it is necessary to have been out of the country for at least 12 months and to have expressed the intention to reside in the country for at least 12 months after entry. Movement between Eire and the United Kingdom is not available in this statistical series.
- ³⁰ See Kelsall, op. cit., p. 32.
- ³¹ *Select Committee on Race Relations and Immigration*, vol. 1, Report, 1977-78 (London, 1978), pp. XV-XXV.
- ³² See above pp. 174-5
- ³³ J. P. May, 'The British working class and the Chinese 1870-1911', MA, Warwick, 1973.
- ³⁴ Quoted in B. Gainer, *The Alien Invasion* (1972), pp. 12, 169.
- ³⁵ Garrard, op. cit., p. 51.
- ³⁶ *RC* 1903, pp. 298, 302.
- ³⁷ Garrard, op. cit., p. 52.
- ³⁸ P. Foot, *Immigration and Race in British Politics* (Harmondsworth, 1965), p. 165.
- ³⁹ *Ibid.*, p. 129.
- ⁴⁰ *Ibid.*, p. 246.
- ⁴¹ *Spearhead*, no. 46, September 1971 (front cover).
- ⁴² B. Smithies and P. Fiddick, *Enoch Powell on Immigration* (1969), p. 68.
- ⁴³ *Parliamentary Debates* (Commons), vol. 912 (1975-6), col. 49. See *ibid.*, col. 48 for a striking reference to the 'steady, large, inexorably continuing flow' of immigrants.
- ⁴⁴ *The Times*, 25 May 1976.

⁴⁵ See above pp. 176-7

⁴⁶ *Spearhead*, no. 127, March 1979, p. 4.

⁴⁷ Reported in the *Daily Telegraph*, 16 August 1979. For Powell's latest speech on this theme, to the Monday Club in Dorking, see *ibid.*, 14 July 1980.

⁴⁸ *Spearhead*, no. 112, December 1977, p. 5 and *ibid.*, no. 116, August 1978, p. 6

⁴⁹ See above, pp. 176-7.

⁵⁰ E. J. B. Rose (ed.), *Colour and Citizenship* (1969), p. 91. On the ethnic census issue see J. Gould, 'Ethnicity and the 1981 British Census', *Patterns of Prejudice*, vol. 14 (January 1980), pp. 24-31. The decision not to include a reference to ethnic origins was given in *Parliamentary Debates* (Commons), vol. 983 (1979-80), cols. 1301-9. For later comment on ethnicity and census returns, see *New Community*, vol. 8 (1980), pp. 3-26.

⁵¹ See the correspondence in *The Guardian*, 25 August 1979.

⁵² Freeman, *op. cit.*, pp. 138-9. For official comment see *Parliamentary Debates* (Commons), vol. 649 (1961), cols. 694-5 and *ibid.*, vol. 969 (1979), col. 1121.

⁵³ For comment on the importance of pre-existing images related to Jewish and New Commonwealth and Pakistani immigrants see Garrard, *op. cit.*, pp. 86-7 and Rex and Tomlinson, *op. cit.*, pp. 285-93, respectively. See J. Higham, 'Anti-semitism in the gilded age', *Mississippi Valley Historical Review*, vol. LXIII (1956-7), pp. 562-5 for reference to the mixed nature of stereotypes. See Rex and Tomlinson, *op. cit.*, pp. 37 for additional comment on mixed images.

⁵⁴ See the general discussion in G. E. Simpson and J. M. Yinger, *Racial and Cultural Minorities* (4 edn, New York, 1972), chapter 3.

⁵⁵ See the comment in Richmond, *op. cit.*, p. 4.

⁵⁶ C. Holmes, *Anti-Semitism in British Society 1876-1939* (1979), pp. 230-1.

⁵⁷ Rose, *op. cit.*, p. 533; Holmes, *Anti-Semitism*, pp. 173, 231; J. Rex and R. Moore, *Race, Community and Conflict* (1967), pp. 3, 12.

⁵⁸ Rex and Tomlinson, *op. cit.*, p. 14 for a recognition of the fact that relations between newcomers and the host society can vary along several axes. See also Simpson and Yinger, *op. cit.*, p. 163 for the significance of cultural stereotypes.

⁵⁹ G. Anderson, 'German clerks in England, 1870-1914; another aspect of the great depression debate', in K. J. Lunn (ed.) *Hosts, Immigrants and Newcomers. Historical Responses to Newcomers in British Society 1870-1914* (Folkestone and New York, 1980), pp. 201-21.

⁶⁰ Garrard, *op. cit.*, pp. 31-3.

⁶¹ The chief concern of May in Holmes, *Immigrants and Minorities*.

⁶² Holmes, *Anti-Semitism*, p. 206.

⁶³ C. Jones, *Immigration and Social Policy in Britain* (1977), p. 141.

- ⁶⁴ J. J. Bennett, 'East end newspaper opinion and Jewish immigration 1885-1905', M. Phil., Sheffield, 1979. See also below, p. 190-1
- ⁶⁵ C. Holmes, 'J. A. Hobson and the Jews' in Holmes, *Immigrants and Minorities*, pp. 130, 147.
- ⁶⁶ Garrard, op. cit., pp. 48-51.
- ⁶⁷ See Holmes, 'The German gypsy question in Britain 1904-1906', in Lunn, op. cit., pp. 134-59.
- ⁶⁸ See May in Holmes, *Immigrants and Minorities*, pp. 113-4. For additional comment on Chinese immigrants and drugs, see V. Berridge, 'East end opium dens and narcotic use in Britain', *The London Journal*, vol. 4 (1978), pp. 3-28.
- ⁶⁹ Quoted, among other places, in Jones, op. cit., p. 137.
- ⁷⁰ R. I. Woods, 'Population turnover, tipping points and markov chains', *Transactions of the Institute of British Geographers*, new series, vol. 2 (1977), pp. 473-89, carries a useful summary of recent thought on such matters.
- ⁷¹ See the letter of Ruth Glass in *The Times*, 16 February 1968. See also S. Allen, *New Minorities. Old Conflicts* (New York, 1971), pp. 59-60.
- ⁷² Freeman, op. cit., p. 278.
- ⁷³ See May, MA thesis; Holmes, *Anti-Semitism*, chapter 6; G. Alderman, 'The anti-jewish riots of august 1911 in South Wales', *Welsh History Review*, vol. VI (1972), pp. 190-200; R. May and R. Cohen, 'The interaction between race and colonialism: a case study of the Liverpool race riots of 1919', *Race*, vol. XVI (1974), pp. 11-26; Bethnal Green and Stepney Trades Council, *Blood on the Streets* (1978); N. Evans, 'The South Wales race riots of 1919', *Llafur*, vol. 3 (Spring 1980), pp. 5-29, provide a range of information on violence against immigrants. The violence in Bristol has just been the subject of an official, local enquiry. For some speculation on future levels of racial violence in Britain see J. Rex, 'Black power or just another brick in the wall', *The Times Higher Education Supplement*, 20 June 1980.
- ⁷⁴ Kiernan in Holmes, *Immigrants and Minorities*, p. 50 brings this out very clearly.
- ⁷⁵ Holmes in Lunn, op. cit., pp. 149-50; G. Dench, *The Maltese in London* (1975); see also C. Holmes, 'Anti-semitism and the BUF', in K. Lunn and R. C. Thurlow (eds.), *British Fascism* (1980), pp. 129-30.
- ⁷⁶ See the related discussion by Holmes in Lunn and Thurlow, op. cit., p. 129. See also Allen, op. cit., p. 3.
- ⁷⁷ S. C. on *Race Relations and Immigration*, pp. IX-XI.
- ⁷⁸ N. Deakin, 'The British Nationality Act of 1948: a brief study of the mythology of race relations', *Race*, vol. II (1969), pp. 77-83.
- ⁷⁹ See Freeman, op. cit., pp. 46, 58-9, 133.
- ⁸⁰ Quoted by Rex and Tomlinson, op. cit., p. 53. See also note 52 above.

⁸¹ Freeman, op. cit., p. 60.

⁸² Foot, op. cit., p. 248.

⁸³ *The Times*, 1 February 1978.

⁸⁴ Jones, op. cit., p. 162 noted that none of the problems associated with immigration had been tackled with the same vigour as that given to the control of immigration.

⁸⁵ For a recent discussion of the legislation of the 1960s on race and immigration see J. Lea, 'The contradictions of the sixties race relations legislation', in National Deviancy Conference, *Permissiveness and Control* (1980), pp. 122-48.

⁸⁶ Jones, op. cit., p. 158. See also J. Rex, 'Black militancy and class conflict', in R. Miles and A. Phizacklea, *Racism and Political Action* (1979), p. 88.

⁸⁷ I. Katznelson, *Black Men, White Cities. Race, Politics and Migration in the United States and Britain 1948-68* (1973), chapter II, partic. pp. 177-80.

⁸⁸ Freeman, op. cit., p. 54.

⁸⁹ Jones, op. cit., p. 159.

⁹⁰ Rex in Miles and Phizacklea, op. cit., p. 88.

⁹¹ Freeman, op. cit., p. 173. See also Runnymede Trust, 'Trade Unions and immigrant workers', *New Community*, vol. IV. (1974-6). p. 22.

⁹² *RC* 1903, pp. 19-20.

⁹³ S. Lerner, 'The impact of the Jewish immigration of 1880-1914 on the London clothing industry and the Trade Unions', *Bulletin of the Society for the Study of Labour History*, vol. XII (Spring 1966), p. 13.

⁹⁴ E. H. Hunt, *Regional Wage Variations in Britain 1850-1914* (Oxford, 1973), p. 319.

⁹⁵ *Ibid.*, p. 321.

⁹⁶ C. Peach, *West Indian Migration to Britain: A Social Geography* (1965), chapters IV and V; D. Brooks, *Race and Labour in London Transport* (1975), p. 257.

⁹⁷ *The Times*, 12 December 1979, provides recent evidence of discrimination by Trade Unions. On more general but related matters, Runnymede Trust, in *New Community*, vol. IV (1974-6), pp. 27-9 notes an improvement over time in union attitudes towards immigrants but acknowledges the persistence of a gap between good intentions and practice and Rex in Miles and Phizacklea, op. cit., pp. 77-8 draws attention to the fact that at times the interests of immigrant trade unionists have been sacrificed by the trade union movement.

⁹⁸ See the comments of Paul Harrison on the Indian Workers' Association in 'The patience of Southall', *New Society*, 4 April 1974.

⁹⁹ On discrimination see, for example, D. J. Smith, *The Facts of Racial Disadvantage* (Harmondsworth, 1976), pp. 56-63, 68, 112-4 and, for a specific group, M. Anwar, *The Myth of Return. Pakistanis in Britain* (1979),

p. 285. Additional comment is carried by Rex and Tomlinson, op.cit., p. 278. For unemployment among New Commonwealth and Pakistani immigrants see Rose, op. cit., p. 180; Rex and Tomlinson, op.cit., pp. 110, 116-7; K. Jones and A. D. Smith, *The Economic Impact of Commonwealth Immigration* (1970), pp. 44-5; S. Castles and G. Kosack, *Immigrant Workers and Class Structure in Western Europe* (1973), pp. 90-3; see also *The Times*, 18 July 1980 and 11 August 1980.

¹⁰⁰ R. G. Opie, 'Britain's immigrants: Do they help the economy?', *New Statesman*, 15 March 1968, p. 324.

¹⁰¹ Rose, op. cit., p. 648; see also K. Jones, 'Immigrants and the social services', *National Institute Economic Review*, No. 41 (August 1967), pp. 28-40.

¹⁰² Opie, loc. cit., p. 324.

¹⁰³ Castles and Kosack, op. cit., pp. 376-82. Enquiries to the Transport and General Workers Union, the National Union of Public Employees and the Commission for Racial Equality drew a blank.

¹⁰⁴ *RC* 1903, pp. 19-20.

¹⁰⁵ B. Kosmin, 'Exclusion and opportunity. Traditions of work among British Jews', in S. Wallman (ed.), *Ethnicity at Work* (1979), pp. 37-68, is the most recent analysis of Jewish occupations.

¹⁰⁶ E. J. Mishan's 'Does immigration confer economic benefits on the host country?', in Institute of Economic Affairs, *Economic Issues in Immigration* (1970), pp. 91-122, is a well-known statement of this position.

¹⁰⁷ A point of view associated particularly with C. P. Kindleberger, *Europe's Post-War Growth. The Role of Labor Supply* (Cambridge, Mass., 1961).

¹⁰⁸ Anwar, op. cit., p. 215, Freeman, op. cit., p. 188; B. Cohen and P. Jenner, 'The Employment of Immigrants: A Case Study within the Wool Industry', *Race*, vol. X (1969), p. 54; P. Harrison in *New Society*, 4 April 1974.

¹⁰⁹ Castles and Kosack, op. cit., p. 424.

¹¹⁰ J. Cornwall, *Modern Capitalism* (1977), pp. 70, 92.

¹¹¹ E. J. Mishan and L. J. Needleman, 'Immigration: some economic effects', *Lloyds Bank Review*, no. 81 (July, 1966), p. 35.

¹¹² Castles and Kosack, op. cit., pp. 388-9.

¹¹³ Kindleberger op. cit., p. 3.

¹¹⁴ Castles and Kosack, op. cit., p. 394.

¹¹⁵ *Ibid.*, pp. 394-5 covers this ground.

¹¹⁶ See above p. 176.

¹¹⁷ See Jackson, op. cit., p. 62 and Gainer, op. cit., pp. 36-44.

¹¹⁸ The impact of New Commonwealth and Pakistani immigration on housing has generated a vast literature. Among early studies reference might be made to Rex and Moore, *Race, Community and Conflict* and Rose,

op. cit., chapters 12 and 17. See also *Report of the Committee on Housing in Greater London*, 1965, Cmnd. 2605, p. 203; K. Leech, 'Housing and immigration crisis in London', *Race*, vol. VIII (1967), pp. 329-44 and Richmond, op. cit., chapter 6 for additional early comment. Rex and Tomlinson, op. cit., pp. 127-57 provide material of later vintage on Handsworth. The whole situation has been monitored over many years in reports by Political and Economic Planning.

¹¹⁹ M. Freedman (ed.), *A Minority in Britain* (1955), pp. 140-1 notes the dispersal of Jews living in London. S. Patterson, 'The Poles: an exile community in Britain', in Watson, op. cit., p. 221 comments on the Polish experience and P. Constantinides, 'The Greek Cypriots: factors in the maintenance of an ethnic identity', in *ibid.*, pp. 278-9 refers to Greek Cypriot mobility; J. L. Watson, 'The Chinese: Hong Kong villagers in the British catering trade', in *ibid.*, p. 181 comments on the dispersal of the Chinese. For evidence of continuing concentration among immigrants see R. I. Woods, 'Ethnic segregation in Birmingham in the 1960s and 1970s', *Ethnic and Racial Studies*, vol. 2 (1979), pp. 455-76.

¹²⁰ Jones, op. cit.

¹²¹ On the Leeds ghetto see E. E. Burgess, 'The soul of the Leeds ghetto', cuttings from the *Yorkshire Evening News*, 1925 (Leeds Public Library).

¹²² M. Banton, *The Coloured Quarter* (1955), is a classic study.

¹²³ P. Harrison in *New Society*, 4 April 1974, pp. 7-11; see also *The Times*, 9 June 1976.

¹²⁴ N. Deakin, 'The vitality of a tradition', in Holmes, *Immigrants and Minorities*, pp. 159-60.

¹²⁵ See Pryce, op. cit., on St Paul's and Rex and Tomlinson, op. cit., on Handsworth.

¹²⁶ Dench, op. cit., chapters 3, 4, 5.

¹²⁷ Patterson in Watson, op. cit., p. 240.

¹²⁸ Watson, *ibid.*, p. 205.

¹²⁹ R. Ballard and C. Ballard, 'The Sikhs: the development of south Asian settlements in Britain', *ibid.*, p. 47.

¹³⁰ N. Foner, 'The Jamaicans; cultural and social change among migrants in Britain', *ibid.*, pp. 120, 145-6. Rex and Tomlinson, op. cit., p. 235 refer to Rastafari as 'the most important single fact about West Indian society and culture in Britain'.

¹³¹ See Rex in Miles and Phizacklea, op. cit., pp. 83-92. for recent comment.

¹³² Kiernan in Holmes, *Immigrants and Minorities* raises this at a number of points. See also K. Newton, *The Sociology of British Communism* (1969), chapter 7 and P. Anderson, 'Components of the national cult', in A. Cockburn and R. Blackburn (eds.), *Student Power* (Harmondsworth, 1969), pp. 229-77.

¹³³ Kiernan in Holmes, *Immigrants and Minorities*, p. 23.

* This paper was finally revised and submitted in mid-September 1981. I am indebted to the Nuffield Foundation which is financing the work on which the discussion is based.

Further reading

Michael Banton, *The Coloured Quarter*, Cape, 1955. A detailed study of the Black population in Stepney in the late 1940s and the early 1950s. The investigation was concerned with the extent to which the immigrants were being assimilated to the settled population. It remains a major example of the 'assimilationist approach' which dominated ethnic studies in Britain until the late 1960s.

Paul Foot, *Immigration and Race in British Politics*, Penguin, 1966. A passionate essay, written at the height of the controversy over New Commonwealth and Pakistani immigration in the 1960s. It provides a vivid account of extreme reactions to immigration between the 1880s and 1960s. Written from a socialist viewpoint.

L. P. Gartner, *The Jewish Immigrant in England 1870-1914*, Allen and Unwin, 1960. A pioneer study of the great Jewish immigration from Tsarist Russia. It concentrates chiefly on London, at the expense of other communities, and says little about the anti-semitism which the newcomers had to face, but it is a superb study of Jewish immigrant life and draws upon an unrivalled range of sources.

Colin Holmes (ed.), *Immigrants and Minorities in British Society*, Allen and Unwin, 1978. An attempt to create a general interest in the history of immigration into Britain. It contains chapters which discuss Irish, Chinese, German and Jewish minorities. It also carries a general survey of immigration into Britain from the Roman times to the present day. There is a useful bibliography.

J. A. Jackson, *The Irish in Britain*, Routledge and Kegan Paul, 1963. Written at a time when there was no published account of Irish settlement in England, Wales or Britain as a whole, it is still the major general survey of Irish immigration and forms a useful starting point and essential quarrying ground for other more detailed studies. It covers the period from the late eighteenth century to 1960.

Kenneth Lunn, *Hosts, Immigrants and Minorities. Historical Responses to New-comers in British Society 1870-1914*, Dawson, 1980. A collection of essays dealing essentially with host responses to a wide range of newcomers in British society. It is particularly strong on the reactions of organized labour and the working class between 1870 and 1914. A work which calls for and deserves close attention.

E. J. B. Rose (ed.), *Colour and Citizenship*, Oxford University Press, 1969. A survey which was intended by its compilers as an unofficial Royal Commission on New Commonwealth immigration. In parts, as in its discussion of the incidence of prejudice, it is methodologically suspect. It survives essentially as an important monument to the concept of integration which

replaced the old assimilationist approach to race relations in Britain.

John Rex and Sally Tomlinson, *Colonial Immigrants in a British City: a Class Analysis*, Routledge and Kegan Paul 1979. The most recent work from Rex which continues his interest in race relations in an urban context. It is a detailed, local study of Handsworth in the late 1970s, but set against a wider context of racialism and colonialism. There is a particularly useful chronological table outlining the major developments in the history of New Commonwealth and Pakistani immigration.

J. A. Tannahill, *European Volunteer Workers in Britain*, Manchester University Press, 1958. An analysis of the little known, government-encouraged immigration of displaced workers from Europe which began in 1947. An 'insider's account', written by a civil servant, and stronger on the administrative aspects of the episode than it is on the lives of the immigrants or reactions to their arrival. It remains, however, a generally useful, interesting and underrated study.

James L. Watson, *Between Two Cultures*, Blackwell, 1977. A survey of a number of immigrant groups that have recently arrived in Britain. Although lacking somewhat in historical perspective, it possesses the particular virtue that its contributors write knowledgeably about the sending societies of the immigrants and the importance of the past in shaping the present and future lives of Britain's newcomers.

Appendix

Appendix: population statistics

Table 1 United Kingdom Population 1851-2001 ('000s)

<i>Year</i>	<i>England & Wales</i>	<i>Scotland</i>	<i>N. Ireland</i>	<i>Total</i>
1851	17,928	2,889	1,443	22,260
1901	32,528	4,472	1,237	38,237
1951	43,758	5,096	1,371	50,225
1981	49,219	5,168	1,536	55,923
1991	50,240	5,181	1,578	56,999
2001	51,270	5,158	1,620	58,048

Sources

For years 1851, 1901 and 1951, Mitchell, B.R. and Jones, H.G. (1971)
Second Abstract of British Historical Statistics.

For 1981, 1991, 2001 midyear estimates, Central Statistical Office (1980)
Annual Abstract of Statistics 1980 p.8.

Table 2 Geographical distribution of the population of the United Kingdom 1851-1978 ('000s)

	1851 %	1911 %	1951 %	1978 %
England				
S. East	5,103(22.9)	11,744(27.9)	15,127(30.1)	16,832(30.2)
S. West	2,223(10.0)	2,687(6.3)	3,229(6.4)	4,296(7.7)
E. Anglia	1,022(4.6)	1,192(2.8)	1,382(2.8)	1,843(3.3)
E. Midlands	1,429(6.4)	2,263(5.4)	2,893(5.8)	3,750(6.7)
W. Midlands	1,714(7.7)	3,277(7.8)	4,423(8.8)	5,154(9.2)
Yorks & Humberside	1,789(8.0)	3,877(9.2)	4,522(9.0)	4,878(8.7)
N. West	2,987(11.2)	5,796(13.8)	6,447(12.8)	6,498(11.6)
North	969(4.4)	2,815(6.7)	3,137(6.2)	3,099(5.6)
Wales	1,189(5.3)	2,421(5.8)	2,599(5.2)	2,768(5.0)
Scotland	2,889(13.0)	4,761(11.3)	5,096(10.1)	5,168(9.3)
N. Ireland	1,443(6.5)	1,251(3.0)	1,371(2.7)	1,536(2.8)
United Kingdom	22,257	42,084	50,226	55,822

Sources For 1851 estimates for Standard Regions based on census data. Central Statistical Office (1980) op. cit. Table 2A census totals for 1911 and 1951; mid-year estimates for 1978.

Table 3a Age structure of the population of England and Wales 1851-2001 ('000s)

Age	1851%	1901%	1951%	1981%	2001%
0-4	2,348	3,717	3,718	2,980	3,542
5-9	2,092	3,487	3,162	3,226	3,819
10-14	1,913	3,342	2,812	3,858	3,823
15-64	10,743	60.0 20,465	62.9 29,241	66.8 31,742	64.5 32,799
65+	830	4.6 1,518	4.7 4,825	11.0 7,413	15.1 7,287
Total	17,926 100	32,529 100	43,758 100	49,219 100	51,270 100

Sources:

Mitchell, B.R. and Deane, P. (1962) *Abstract of British Historical Statistics* pp 12-13 for census totals in 1851, 1901 and 1951. Central Statistical Office (1980) op. cit. pp 22-3 for mid year estimates projected from a 1978 base for 1981 and 2001.

Table 3b Age structure of the population of Scotland 1851-2001 ('000s)

Age Group	1851%	1901%	1951%	1981%	2001%
0-4	372	533	471	325	357
5-9	340	493	398	352	395
10-14	318	469	387	430	409
15-64	1,723	59.6 2,761	61.7 3,334	65.4 3,335	64.5 3,294
65+	138	4.8 216	4.8 506	9.9 726	14.1 703
Total	2,891 100	4,472 99.9	5,096 99.9	5,168 100	5,158 100

Sources See Table 3a

Table 4a Marital condition of the population of England and Wales and Scotland 1861-1971
(per 1,000 population in each age group)

<i>Males</i>		1861		1901		1951		1971	
Age		E.W	Scot	E.W	Scot	E.W	Scot	E.W	Scot
Groups									
All ages	S	612	658	608	655	438	500	438	476
	M	351	309	357	312	523	458	526	488
	W	37	33	35	33	35	40	28	31
	D	—	—	—	—	4	2	8	5
15-19	S	995	996	997	997	995	995	979	977
	M	5	4	3	3	5	5	21	23
	W	—	—	—	—	—	—	—	—
	D	—	—	—	—	—	—	—	—
20-24	S	775	833	826	874	762	800	632	617
	M	223	165	173	125	237	199	366	381
	W	2	2	1	1	1	1	—	—
	D	—	—	—	—	—	—	2	2
25-34	S	318	386	359	452	272	335	201	198
	M	667	600	631	536	720	658	786	792
	W	15	14	10	12	3	4	1	1
	D	—	—	—	—	5	3	12	9
35-44	S	142	182	158	211	120	158	109	117
	M	821	782	812	755	862	823	870	867
	W	37	36	30	34	9	13	5	5
	D	—	—	—	—	9	6	16	11
45-54	S	105	135	110	146	92	130	94	114
	M	821	792	819	780	877	833	875	856
	W	74	73	71	74	24	32	15	20
	D	—	—	—	—	7	5	7	10
55-64	S	90	126	89	121	78	118	81	110
	M	761	739	764	733	850	792	862	824
	W	149	135	147	146	68	87	45	58
	D	—	—	—	—	4	3	13	8
65-74	S	84	112	78	107	84	130	74	112
	M	627	640	630	621	733	648	793	731
	W	289	248	292	272	181	220	125	151
	D	—	—	—	—	2	1	8	6
75-84	S	74	93	66	101	78*	113*	64*	103*
	M	438	491	444	452	507	436	581	503
	W	488	416	490	447	413	448	352	392
	D	—	—	—	—	2	2	3	3
85 and over	S	74	81	62	95	—	—	—	—
	M	272	338	263	280	—	—	—	—
	W	654	581	675	625	—	—	—	—
	D	—	—	—	—	—	—	—	—

*75 and over

S = Single; M = Married; W = Widowed; D = Divorced

Sources

Mitchell, B.R. and Deane, P. (1962) op. cit. pp 15, 17, for 1851 and 1901.
Central Statistical Office (1981) *Annual Abstract of Statistics 1981* pp 18-19 for 1951 and 1971.

Table 4b Marital condition of the population of England and Wales and Scotland 1861-1971
(per 1,000 population in each age group)

<i>Females</i>		1861		1901		1951		1971	
Age		E.W	Scot	E.W	Scot	E.W	Scot	E.W	Scot
Groups									
All ages	S	587	426	586	428	405	475	380	425
	M	339	444	340	456	488	428	498	457
	W	74	130	74	116	102	94	111	109
	D	—	—	—	—	6	4	11	9
15-19	S	970	973	985	979	956	956	913	921
	M	30	27	15	21	44	35	87	79
	W	—	—	—	—	—	—	—	—
	D	—	—	—	—	—	—	—	—
20-24	S	664	741	726	764	518	603	397	420
	M	331	255	272	234	480	395	597	574
	W	5	4	2	2	1	1	1	1
	D	—	—	—	—	1	1	5	5
25-34	S	305	392	340	404	182	242	107	119
	M	667	577	643	579	797	740	869	859
	W	28	31	17	17	10	11	4	5
	D	—	—	—	—	11	7	20	17
35-44	S	159	237	185	239	137	179	72	95
	M	762	668	751	696	821	779	888	866
	W	79	95	64	65	29	34	17	21
	D	—	—	—	—	13	8	23	18
45-54	S	119	201	136	192	151	203	81	116
	M	720	610	705	645	759	697	836	790
	W	161	189	159	163	80	94	61	76
	D	—	—	—	—	10	6	22	17
55-64	S	109	205	117	181	155	209	105	149
	M	589	461	569	500	624	558	699	631
	W	302	334	314	319	215	229	178	208
	D	—	—	—	—	6	4	18	12
65-74	S	105	211	111	190	155	216	135	198
	M	400	295	368	310	429	376	463	386
	W	495	494	521	500	413	405	391	409
	D	—	—	—	—	3	2	11	7
75-84	S	102	210	111	202	165*	222*	154*	225*
	M	202	148	176	140	201	166	188	150
	W	696	642	713	658	632	611	654	622
	D	—	—	—	—	1	1	4	3
85 and over	S	91	186	119	207	—	—	—	—
	M	77	53	59	40	—	—	—	—
	W	832	761	822	752	—	—	—	—
	D	—	—	—	—	—	—	—	—

*75 and over

Sources

Mitchell, B.R. and Deane, P. (1962) op. cit. pp 15, 17, for 1851 and 1901.
Central Statistical Office (1981) *Annual Abstract of Statistics 1981* pp 18-19 for
1951 and 1971.

Table 5 Births, deaths and marriages per 1000 mean population in England and Wales and Scotland 1851-1975

<i>Period</i>	<i>Births</i>		<i>Deaths</i>		<i>Marriages</i>	
	E-W	S	E-W	S	E-W	S
1851-55	34.0	—	23.5	—	17.2	—
1871-75	35.5	35.0	23.3	23.6	17.1	15.0
1900-05	28.2	29.2	16.0	17.0	15.6	14.0
1931-35	15.0	18.2	12.0	13.2	16.1	14.3
1951-55	15.3	17.9	11.7	12.1	15.9	16.3
1971-75	14.0	14.5	11.9	12.3	16.3	15.9

Sources

Mitchell, B.R. and Deane, P (1962) op. cit. pp 29-46 for 1851-55 and 1871-75; Halsey, A.H. (Ed) (1972) *Trends in British Society since 1900* p. 31 for birth and death rates 1901-05, 1931-35 and 1951-55; Central Statistical Office (1981) *Annual Abstract of Statistics 1981* pp 35-6; for birth and marriage rates 1971-75; Mitchell, B.R. and Jones, H.G. (1971) p.30 for marriage rates 1951-55; United Nations (1976) *Demographic Year Book 1975*, p.313 for death rates 1971-75.

Table 6 Expectation of life at selected ages: England and Wales 1838-1976

<i>Period</i>	<i>At Birth</i>		<i>At Age 15</i>		<i>At Age 65</i>	
	Males	Females	Males	Females	Males	Females
1838-54	39.9	41.8	43.2	43.9	10.8	11.5
1891-1900	44.1	47.8	45.2	47.6	10.3	11.3
1950-52	66.5	71.5	54.4	58.9	11.7	14.3
1974-76	69.6	75.8	56.2	62.1	12.4	16.4

Source

Office of Population Censuses and Surveys (1978) *Demographic Review 1977* Table 2.5 p 19.

Index

Index

- activity rates, *see* work
- adolescence
 - invention of, 46
- Aitken, F.C., 130
- Anderson, Michael, 143
- Armstrong, W.A., 69
- Army
 - recruits, physical condition of, 114, 128-9
- Banting, Sir Frederick, 112
- Barrow, 10
 - industries in, 140
 - population of 1891-1931, 140
 - women in employment in, 140, 141, 142
- Beales, H.L., 125
- Best, Charles, 112
- Bevan, Aneurin, 114
- Beveridge, William, 23
 - on population and unemployment, 23-4
- births
 - per family, 43
 - immigrant, 179
 - statistics of 1851-1975, 210
 - in textile towns, 153
- Blackpool, 8
- Blaug, M., 18
- Block, A., 68, 85, 86, 88
- Blundell, James, 153
- Boer War
 - health of recruits to, 114, 128
- Bott, Elizabeth, 152
- Bowley, L.A., 144
- Boyne, A.W., 130
- boys, *see* children
- Bransby, E.R., 130
- breast feeding, 125-6
- Brieux, Eugene, 123
- British Association for the Advancement of Science
 - anthropometric survey by, 123
- Butler, Samuel, 122, 123
- Byron, Lord, 122
- Cambridge Group for the History of Population and Social Structure, 8, 11
- Cambridge, physique of students at, 129
- Cantlie, James, 121

Index 217

- Eugenics Society
 - formation of, 122
- expectation of life, *see* life expectancy
- families
 - size of, 10, 43
 - structure of, 62
- Family Expenditure Survey, 11, 62
 - response rate, 63
- family limitation, *see* contraception
- Farr, William, 101, 113, 114
- fertility
 - legitimate rates of 1891-1940, 154
 - see* births
- First World War
 - UK men killed in, 10, 104
 - wounded in, 104
- fish and chips, 162
- food, *see* diet
- expenditure on, 136
- poverty and, 137
- Hewitt, Margaret, 156, 160
- history
 - bias in writing of, 7, 53, 56
 - historical demography, 8
 - new journals, 8
 - oral, 8, 140, 142, 143, 147
 - qualitative and quantitative, 56, 57
 - social, development of, 7, 8
- Hobson, J.A., 15
- Hogg, M.H., 144
- Hole, W.V., 85
- Hopkins, S.V., 21
- households
 - age structure of, 72
 - composition of, 11, 77, 81, 83
 - definition of in census, 63-9
 - lodgers in, 68
 - one person, under-enumeration of, 66
 - problems in study of, 63

- information on household composition, 63
- childbearing
 - length of, 9
- childhood
 - accidents, in, 160
 - definition of, 35, 72-3
 - experience of in Victorian period, 46
- childminding, 45, 157-9
 - payment for, 159
- children
 - age on starting work, 48
 - education of, 51-3
 - growth in numbers of, 10, 14, 35-9
 - health of, 11, 126
 - height of, 116, 123, 124-5, 130, 131, 134, 135
 - mortality of, 39, 155-7
 - nutrition of, 131, 132, 133
 - physical development of, 123, 126, 127, 130
 - proportion of in population, 42-3, 44
 - sources for history of, 34
 - weight of, 116, 123, 124-5, 130, 131, 134, 135
 - work by, 10-11, 47-51, 53
- Clements, E.M.B., 123, 130
- Cohen, M., 145
- contraception, 11, 40
 - causes of, 43, 44
 - in textile towns, 153
 - practice of, 154-5
- Corry Mann, H., 132
- Crowley, Ralph, 127
- Dale, Sir Henry, 111
- Daley, Sir Allen, 130
- deaths, *see* mortality
- diet, 11
 - breastfeeding, 156
 - of children, 131
 - health and, 115
 - inadequacy of amongst schoolchildren, 127
 - mortality and, 109, 115
 - patent foods in, 126
 - physical development and, 131
 - signs of improvement in, 11
 - 'textile', 161-2
 - in UK 1889-1913, 124
 - working class 1887-1913, 124, 145
- disease
 - of children, 126
 - deficiency, 112
 - degenerative, 136
 - infectious, 110
 - longevity and, 136
 - waterborne, 113
- Dyhouse, Carol, 157
- economic growth
 - in advanced industrial economies 1952-71, 26
 - impact of immigration on, 189-90
 - sluggish in UK, causes of, 28
 - state and, 7, 22
- education, 51
 - census and, 51, 52
 - cost of, 55
 - extent of by 1830s, 54
 - fall in mortality and, 54
 - Newcastle Commission, 52
 - 'quality of life' and, 56
 - 'schooling' and, 52
- Ehrlich, Paul, 112
- Elderton, Ethel M., 153
- employment
 - model of, 14-15, 30
- energy
 - consumption in UK 1951-73, 20

-
- settlement patterns of, 176, 190, 191, 192
 - statistics of, 176-7, 179
 - stereotypes of, 179-80
 - in UK, 27
 - violence towards, 183
 - in West Germany, 27
 - immigration
 - campaigns against, 177;
 - language used in, 178
 - Government reaction towards, 173, 184-7
 - immediate post Second World War into UK, 173
 - Jenner, Edward, 111
 - Keith, Sir Arthur, 128
 - Keynes, J.M., 23, 24, 25, 26
 - labour force
 - medical department of, 113, 114
 - London and Cambridge Economic Service, 16
 - MacDonald, Ramsay
 - on population, 24
 - McKeown, Thomas, 108, 110, 111, 112
 - Maddison, Angus, 16
 - Malthus, Thomas, 17
 - Marx and, 17
 - Mill and, 18
 - oil crisis and, 20
 - theory of, 10, 17, 22, 24
 - views of in 1960, 19
 - Mann, Thomas, 123
 - Marshall, Alfred, 15, 22
 - Martin, Kingsley, 172
 - Marx, Karl
 - and Malthus, 17

- effect of education on, 54
 - effect of female employment
 - on, 105, 125, 155-6
 - governmental impact on, 112, 114
 - of infants, 11, 39, 40, 100, 104;
 - causes of 105-6; 156-7; correlation with alcoholism, 126
 - medical intervention and decline of, 110
 - of men in First World War, 10, 104
 - rural, 41, 101, 103, 125
 - sex differential in, 104
 - by social class, 40, 107, 108, 125
 - in Scotland and England and Wales, 101
 - statistics of for UK, 210
 - from tuberculosis, 116
 - uniformity in fall of, 103
 - urban, 42, 101, 103, 125
- National Insurance Act of 1911, 114
- National Service Medical Board
 - report of, 11
- Newcastle Commission, 52
- Newman, George, 126, 156
- Nigeria, 20
- nutrition, *see* diet
- O. Henry, 122
- oil
 - cartel in, 19-20
 - crisis of 1973, 19
 - supplies of, 20
- OPEC
 - and oil prices, 19
- Osborne, Sir Cyril, 178
- Owens, A., 30
- Pasteur, Louis, 111
- Pease, J.A., 127
- Perkin, Harold, 8
- Persia, 20
- Phelps Brown, E.H., 21
- Physical Deterioration Committee
 - report of, 128
- physique
 - boys and girls 1880-1921, 123
 - of Cambridge students, 128-29
 - of children, 130, 131
 - of factory employees, 127
 - in Liverpool, 129
 - by social class, 135
 - third generation Londoner, 122
- Poe, Edgar Allan, 122
- population growth
 - age structure and, 29-30
 - in Britain 1100-1350; 1750-1950, 34; 1851-2001, 203
 - decline of, 25
 - in early nineteenth century, 17
 - employment and, 10, 14, 17, 23, 25, 29
 - energy resources and, 19, 20
 - impact of, 9, 10, 17, 18, 27, 28
 - investment in USA and, 26
 - Keynes on, 25
 - level of dependency and, 30
 - living standards and, 17, 21
 - need for teachers and, 29
 - statistics of, 203-10
 - zero, 29
 - see* Malthus
- Pountney, M.P., 85
- poverty
 - line, 144
 - in 1940, 149
 - primary, 144
- Powell, Enoch, 178, 179
- Preston, 10

- industries in, 141
- population of 1891-1931, 141
- women in employment in, 141, 142
- Rathbone, Eleanor, 148
- Reddaway, W.B., 14
- Roberts, Robert, 160
- Rowntree, Seebohm, 144, 162
- Schofield, R., 8
- school dinners, 132, 133
- school milk, 132, 133
- Scott, J., 142, 145, 146, 162
- Shiga, 112
- shopkeepers, 146
 - women, 149
- Simon, John, 133
- Sims, George, 173
- social history, *see* history
- Social History Society, 8
- Spengler, J.J., 17, 18
- standard of living
 - productivity and, 15
 - population growth and, 17
- statistical evidence
 - reliability of, 11
- Stephens, T.H., 131
- Sweezy, A., 30
- Tawney, R.H., 126
- Taylor, A.J.P., 128
- Taylor, Sir William, 128
- Tilly, L., 142, 145, 146, 162
- Titmuss, R., 9
 - Millicent Fawcett Lecture by, 9
- tuberculosis, 122
 - in Britain, 116
 - in Denmark, 116
 - extent of, 128
 - pattern of mortality from, 116
- unemployment
 - birth control and, 18
 - birth rate and, 14
 - in Britain in 1930s, 10, 14, 16, 144-45; in 1950s and 1960s, 26
 - causes of, 22, 23, 24, 25
 - conceptual and data collection problems of, 15, 16
 - definition of, 15-16
 - demand and, 22
 - immigration and, 188
 - infant mortality and, 106
 - investment and, 25
 - output and, 14-15
 - population size and, 14
 - rise of in UK, 19
 - underemployment and, 15
 - use of term, 15
- UK
 - age structure of population 1851-2001, 205
 - energy consumption of, 20
 - geographical distribution of population of, 204
 - marital condition of population of, 206-9
 - size of population 1851-2001, 203
- Vincent, Sir Howard, 182
- wages, 144
 - family, 146, 151
 - impact of immigrants on, 180-1, 187-9
 - in Lancaster, Barrow, Preston, 144
 - real, fifteenth to nineteenth centuries, 21
- Weir, J.B. de V., 130
- Winter, J.M., 129
- women
 - attitude to work, 146-7

- burdens of in Victorian period, 46
- employment of, 140, 141, 142, 143
- vital statistics of, 9
- work of and infant mortality, 105, 125, 155-6
- work of and family relationships, 151-3
- work
 - activity rates and, 16
 - availability of for women, 150
 - of children, 10-11, 47-51
 - effect of female work on mortality, 105
 - legislation on child, 51
 - of married women, 11
 - mortality and, 106
 - part-time, 16, 150
 - Victorian ethic of, 146
 - of women, 16, 17
- World Health Organization
 - concept of health, 122
- Wrigley, E.A., 8
